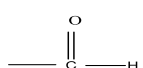
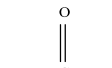
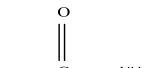

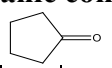
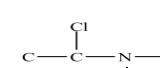
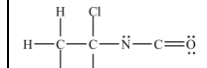
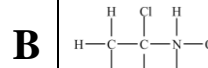
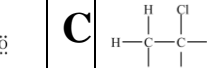

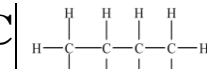
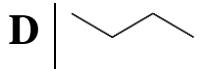
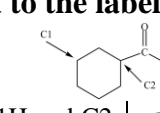
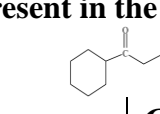
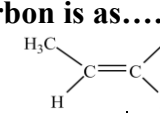
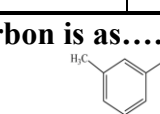
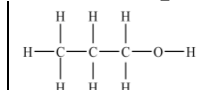
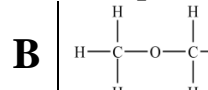
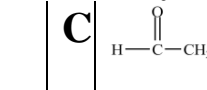
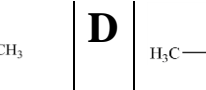


بنك الأسئلة في مقرر الكيمياء الطبية 2 (109-تحض)

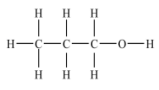
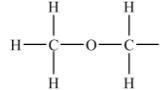
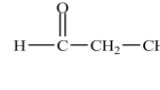
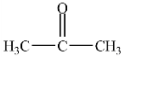
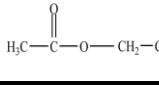
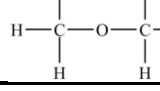
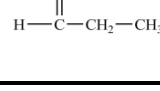
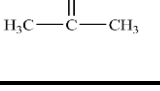
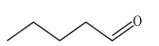

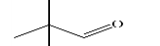
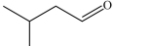
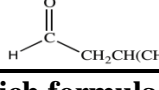
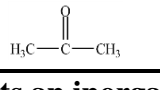
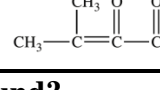
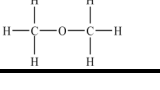
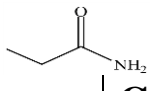
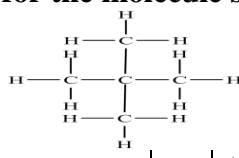
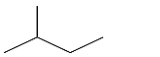
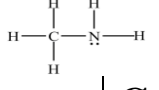
(Chem 109 Chapter 10)

Ques. no.	Question
1	Select the correct formula, which represent an organic compound
	A NaCl B BaSO ₄ C HCl D C ₄ H ₁₀
2	How many covalent bonds does carbon generally form in organic compounds?
	A 2 B 3 C 4 D 6
3	Select element, which represents as heteroatom in organic compounds.
	A C B N C H D None
4	Identify the molecule, which have covalent bonding.
	A NaCl B CH ₄ C Na ₂ CO ₃ D H ₂ O
5	When hydrocarbons are added to water, they are
	A soluble B insoluble C Partially soluble D Convert to gas
6	Functional group 'Amide' is:
	A  B  C  D 
7	Identify the functional group in given organic compound, which is....
	A Carboxylic acid B Ester C  Aldehyde D Ketone
8	Functional group which represents Alkenes is...
	A Hydroxyl group B Carbon-carbon triple bond C Carbon-carbon double bond D Aldehyde group
9	Identify the lone pairs electrons in CH ₃ -O-CH ₃ organic molecule.
	A 2 B 3 C 1 D 4
10	Which of the following is true for element Carbon?
	A Monovalent B Divalent C Trivalent D Tetravalent

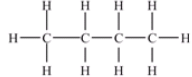
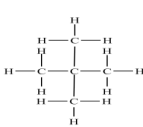
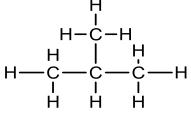
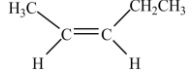
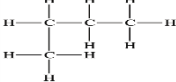
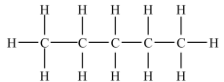
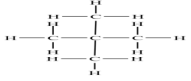
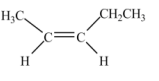
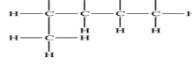
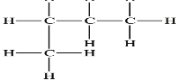
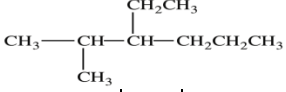
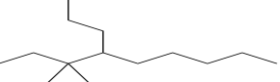
بنك الأسئلة في مقر الكيمياء الطبية 2 (109-تحض)

Ques. no.	Question
11	General molecular formula of <i>Alkane</i> is..... A C_nH_{2n-2} B C_nH_{2n+2} C C_nH_{2n} D C_nH_{2n+1}
12	Numbers of Constitutional isomers of molecular formula C_5H_{12} are..... A 2 B 3 C 4 D 5
13	Isomers are the compounds those must have same..... A Structural formula B Chemical Properties C Molecular formula D Physical properties
14	Which structure has all of the hydrogens and lone pairs correctly added to the compound shown below?  A  B  C  D 
15	Which represents a condensed structure for a four-carbon hydrocarbon? A $CH_3CH_2CH_2CH_3$ B C_4H_{10} C  D 
16	How many H atoms are bonded to the labeled carbons in the given structure?  A C1 has 2Hs and C2 has 2Hs B C1 has 1H and C2 has no Hs C C1 has 2Hs and C2 has 1H D C1 has 1H and C2 has 1H
17	How many total H atoms are present in the given organic structure?  A 12 H atoms B 18 H atoms C 17 H atoms D 19 H atoms
18	Classification of given hydrocarbon is as.....  A Alkyne B Alkane C Alkene D Aromatic hydrocarbon
19	Classification of given hydrocarbon is as.....  A Alkyne B Alkane C Alkene D Aromatic hydrocarbon
20	Select the compound which represent as an aldehyde? A  B  C  D 


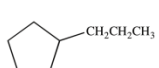
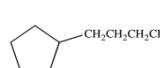
بنك الأسئلة في مقرر الكيمياء الطبية 2 (109-تحض)

Ques. no.	Question
21	Identify the organic compound that classified as an alcohol. A  B  C  D 
22	Identify the organic compound that classified as an alcohol. A  B  C  D 
23	Identify the organic compound that classified as an alcohol. A Carboxylic acid B Ether C Ester D Ketone
24	The compound whose condensed structure is $(\text{CH}_3)_3\text{CCH}_2\text{OH}$ can be represented as a skeletal structure as which of the following? A  B  C  D 
25	Which structure is not possible? A  B  C  D 
26	Which formula represents an inorganic compound? A $\text{CH}_3\text{NHCH}_2\text{CH}_3$ B $\text{ClCH}_2\text{CH}_2\text{Cl}$ C $\text{CH}_3\text{CO}_2\text{CH}_2\text{CH}_3$ D CaCl_2
27	How many lone pairs of electrons are present but not shown in the molecule below?  A 1 B 2 C 3 D 4
28	What is the condensed formula for the molecule shown below?  A $\text{CH}_3\text{CCH}_3\text{CH}_3\text{CH}_3$ B $(\text{CH}_3)_2(\text{CH}_2)_2\text{CH}_3$ C $(\text{CH}_3)_4\text{C}$ D 
29	The compound given below is classified as a/an.....  A Ether B Amine C Amide D Aldehyde
30	How many covalent bonds does nitrogen typically form in organic compounds? A 1 B 2 C 3 D 4

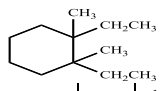
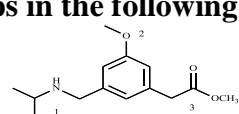
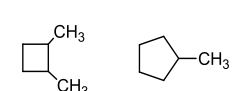
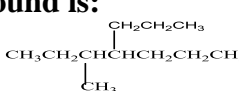
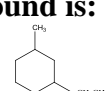
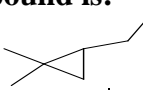
بنك الأسئلة في مقرر الكيمياء الطبية 2 (109-تحض)

Ques. no.	Question
31	Which compound is most flammable? A CH ₃ CH ₂ OH B NaCl C CO ₂ D HCl
32	How many hydrogen atoms are present in a cyclic alkane with six (6) carbon atoms? A 8 B 10 C 12 D 14
33	How many hydrogen atoms are present in an acyclic alkane with five (5) carbon atoms? A 8 B 10 C 12 D 14
34	Identify the formula, which represents an <i>acyclicalkane</i> . A C ₁₀ H ₂₀ B C ₁₂ H ₂₆ C C ₁₀ H ₁₈ D C ₉ H ₁₈
35	Identify the formula, which represents a <i>cyclic alkane</i> . A C ₁₁ H ₂₀ B C ₁₀ H ₁₈ C C ₉ H ₂₀ D C ₁₀ H ₂₀
36	Which of the following compounds is identical to the one shown below?  A  B  C  D 
37	What is the IUPAC name of CH ₃ CH ₂ CH ₂ CH ₂ CH ₂ CH ₃ ? A Hexane B Heptane C Pentane D Butane
38	Which compound is a constitutional isomer of the one shown below?  A  B  C  D 
39	What is the IUPAC name of given compound?  A 4-Propylhexane B 2-Methyl-3-ethylhexane C 3-Ethyl-2-methylhexane D 4-Ethyl-5-methylheptane
40	What is the IUPAC name of given compound?  A 4-Isopentylnonane B 3,3-Dimethyl-4-propylnonane C 3-Ethyl-4-propylnonane D 3,3-Dimethyl-4-butylnonane


بنك الأسئلة في مقرر الكيمياء الطبية 2 (109-تحض)

Ques. no.	Question
41	<p>What is the IUPAC name of this compound?</p> $\begin{array}{c} \text{CH}_2\text{CH}_3 \\ \\ \text{CH}_3\text{CH}_2\text{CHCH}_2\text{CHCH}_3 \\ \\ \text{CH}_2\text{CH}_2\text{CH}_2\text{CH}_2\text{CH}_3 \end{array}$ <p>A 3-Ethyl-5-methyldecane B 3-Ethyl-5-pentylhexane C 3-Ethyl-2-pentylhexane D 8-Ethyl-6-methyldecane</p>
42	<p>What is the IUPAC name of this compound?</p>  <p>A Ethyl-2-methylcyclobutane B 1-Ethyl-2-methylcyclopropane C 1-Ethyl-2-methylcyclobutane D Ethyl-methylcyclopropane</p>
43	<p>Identify the structure of 2-methylhexane, which is.....</p> <p>A $(\text{CH}_3)_2\text{CHCH}_2\text{CH}_2\text{CH}_3$ B $(\text{CH}_3)_3\text{CCH}_2\text{CH}_2\text{CH}_2\text{CH}_3$ C $(\text{CH}_3)_2\text{CH}(\text{CH}_2)_3\text{CH}_3$ D $\begin{array}{c} \text{CH}_3 \\ \\ \text{CH}_3-\text{CH}-\text{CH}_2\text{CH}_2\text{CH}_3 \end{array}$</p>
44	<p>Identify the structure of 2-methylhexane, which is.....</p> <p>A  B  C $\text{CH}_3-\text{CH}_2-\text{CH}(\text{CH}_2\text{CH}_3)-\text{CH}_2-\text{CH}_3$ D $\text{CH}_3-\text{CH}_2-\text{CH}(\text{CH}_2\text{CH}_2\text{CH}_3)-\text{CH}_2-\text{CH}_3$</p>
45	<p>Which alkane has the lowest boiling point?</p> <p>A Ethane B Propane C Butane D Hexane</p>
46	<p>Which name is not a valid IUPAC name for an alkane?</p> <p>A 2,3,4-Trimethylhexane B 1-Ethyl-2-butylpentane C 1-Butyl-2-ethylcyclopentane D 5-Butyl-2-methylnonane</p>
47	<p>Which compound has the lowest melting point?</p> <p>A $\text{CH}_3(\text{CH}_2)_3\text{CH}_3$ B $\text{CH}_3(\text{CH}_2)_6\text{CH}_3$ C $\text{CH}_3(\text{CH}_2)_5\text{CH}_3$ D $\text{CH}_3(\text{CH}_2)_7\text{CH}_3$</p>
48	<p>Which compound has the highest melting point?</p> <p>A $\text{CH}_3(\text{CH}_2)_3\text{CH}_3$ B $\text{CH}_3(\text{CH}_2)_6\text{CH}_3$ C $\text{CH}_3(\text{CH}_2)_5\text{CH}_3$ D $\text{CH}_3(\text{CH}_2)_7\text{CH}_3$</p>
49	<p>What is the IUPAC name of this molecule?</p> $\begin{array}{c} \text{CH}_3 \qquad \qquad \text{CH}_3 \\ \qquad \qquad \qquad \\ \text{CH}_3-\text{C}-\text{CH}_2-\text{CH}-\text{CH}_2\text{CH}_3 \\ \\ \text{CH}_2\text{CH}_3 \end{array}$ <p>A 2-Ethyl-2,4-dimethylhexane B 2,4-Dimethyl-2-ethylhexane C 3,3,5-Trimethylheptane D 5-Ethyl-3,5-dimethylhexane</p>
50	<p>Fill in the blank "..... an atom or a group of atoms with characteristic chemical and physical properties".</p> <p>A Hydrocarbons B Constitutional isomers C Stereoisomers D Functional group</p>

بنك الأسئلة في مقرر الكيمياء الطبية 2 (109-تحض)

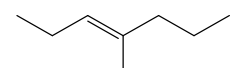
Ques. no.	Question							
51	Select the correct <i>IUPAC</i> name for: $(\text{CH}_3\text{CH}_2)_3\text{CCH}_2\text{CH}_2\text{CH}(\text{CH}_3)_2$							
A	5-Diethyl-2-methylheptane	B	5,5-Diethyl-2-methylheptane	C	2-Methyl-5,5-diethylheptane	D	3,3-Diethyl-6-methylheptane	
52	The <i>IUPAC</i> name of the following a cycloalkane is :							
								
A	1,2-Dimethyl-1,2-diethylcyclohexane	B	1,1-Diethyl-2,2-dimethylcyclohexane	C	1,2-Diethyl-1,2-dimethylcyclohexane	D	1,2-Diethyl-2-dimethylcyclohexane	
53	Identify the labeled functional groups in the following compound.							
								
A	1Amine, 2 alcohol, 3 ketone	B	1Amine, 2 ether, 3 ester	C	1Amine, 2 alcohol, 3 ester	D	1 Amine, 2 alcohol, 3 ether	
54	Cyclohexane represents constitutional isomer for							
A	1-Ethyl-2-pentene	B	3-Methyl-2-pentyne	C	3-Methyl-1-hexene	D	2-Methyl-2-pentene	
55	The following pair of compounds is classified as:							
								
A	Constitutional isomers	B	stereoisomers	C	Identical molecules	D	Not isomer	
56	Which of the following structures represents <i>Neopentane</i> ?							
A	$\text{CH}_3\text{CH}_2\text{CH}_2\text{CH}_2\text{CH}_3$	B	$\text{CH}_3\text{CH}(\text{CH}_3)\text{CH}_2\text{CH}_3$	C	$\text{H}_3\text{C}-\text{C}(\text{CH}_3)_3$	D	$\text{CH}_3\text{CH}(\text{CH}_3)\text{CH}(\text{CH}_3)\text{CH}_3$	
Organic molecule which contain hetero atom is:								
57	A	$\text{CH}_3-\text{CH}_2-\text{CH}_2-\text{CH}_3$	B	$\text{CH}_3-\text{O}-\text{CH}_2-\text{CH}_3$	C	$\text{CH}_3-\text{CH}=\text{CH}-\text{CH}_3$	D	$\text{CH}_3-\text{CH}=\text{CH}_2$
58	IUPAC name of the following compound is:							
								
A	4-propyl-3-methylheptane	B	4-propyl-5-methylheptane	C	3-methyl-4-propylheptane	D	4-ethyl-3-methylheptane	
59	The <i>IUPAC</i> name of the following compound is:							
								
A	1-methyl-3-ethylcyclohexane	B	3-ethyl-1-methylcyclohexane	C	1-ethyl-3-methylcyclohexane	D	1-ethyl-3-methylhexane	
60	The <i>IUPAC</i> name of the following compound is:							
								
A	1,1-dimethyl-2-ethylcyclopropane	B	1,1-diethyl-2-methylcyclopropane	C	1,2,3-trimethylcyclopropane	D	1-ethyl-2,2-dimethylcyclopropane	

بنك الأسئلة في مقرر الكيمياء الطبية 2 (109-تحض)

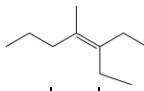
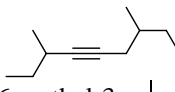
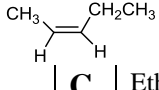
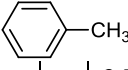
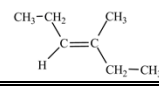
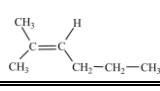
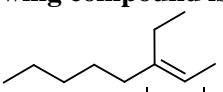
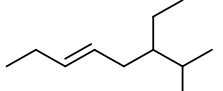
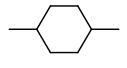
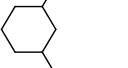
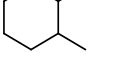
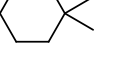
Ques. no.	Question
61	<p>The IUPAC name of the following compound is....</p>  <p> A 1-ethyl-2,4,4-trimethylcyclopentane B 1-ethyl-3,3,5-trimethylcyclopentane C 1,1,3-trimethyl-4-ethylcyclopentane D 1,3,3-trimethyl-5-ethylcyclopentane </p>
62	<p>The IUPAC name of the following compound is....</p> <p style="text-align: center;">$(\text{CH}_3)_2\text{CH}-\text{CH}(\text{CH}_3)_2$</p> <p> A Hexane B 1,1,2,2-tetramethylethane C 2,3-dimethyl butane D 1,4-dimethylbutane </p>
63	<p>The IUPAC name of the following compound is:</p> $\begin{array}{c} \text{CH}_3\text{CH}_2\text{CHCH}_2\text{CH}_2\text{CH}_2\text{CH}_2\text{CH}_3 \\ \\ \text{CH}_2\text{CH}_2\text{CH}_3 \end{array}$ <p> A 6-ethylnonane B 4-ethylnonane C 3-propyloctane D 6-propyloctane </p>
64	<p>General molecular formula of cycloalknaes is.....</p> <p> A $\text{C}_n\text{H}_{2n-2}$ B $\text{C}_n\text{H}_{2n+2}$ C C_nH_{2n} D $\text{C}_n\text{H}_{2n+1}$ </p>
65	<p>..... is a pairs <i>Constitutional Isomer</i>.</p> <p> A Butane & iso-pentane B Acetic acid & ethanol C Ethanol & dimethyl ether D Acetaldehyde & acetone </p>
66	<p>Alkanes are soluble in:</p> <p> A Water B Organic solvent C Inorganic solvent D None of these </p>
67	<p>Alkenes and alkanes are called</p> <p> A Saturated hydrocarbones B Unsaturated hydrocarbones C Aromatic compounds D Carbohydrates </p>

بنك الأسئلة في مقرر الكيمياء الطبية 2 (109-تحض)

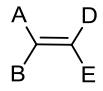
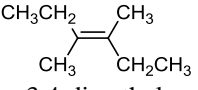
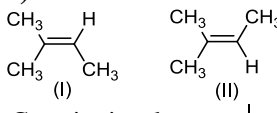
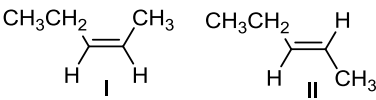
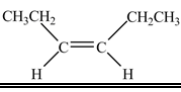
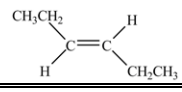
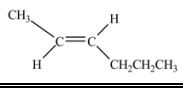
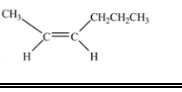
(Chem 109 Chapter 11)

Ques. no.	Question				
1	Which types of compounds are saturated hydrocarbons? <table border="0" style="width: 100%;"> <tr> <td style="width: 25%;">A Alkenes</td> <td style="width: 25%;">B Aromatic compounds</td> <td style="width: 25%;">C Alkanes</td> <td style="width: 25%;">D Alkynes</td> </tr> </table>	A Alkenes	B Aromatic compounds	C Alkanes	D Alkynes
A Alkenes	B Aromatic compounds	C Alkanes	D Alkynes		
2	Which statement is true about Unsaturated Hydrocarbons <table border="0" style="width: 100%;"> <tr> <td style="width: 25%;">A single covalent bond</td> <td style="width: 25%;">B Alkane</td> <td style="width: 25%;">C Multiplebonds (double, triple bonds)</td> <td style="width: 25%;">D All statement are correct</td> </tr> </table>	A single covalent bond	B Alkane	C Multiplebonds (double, triple bonds)	D All statement are correct
A single covalent bond	B Alkane	C Multiplebonds (double, triple bonds)	D All statement are correct		
3	General Molecular Formula and bond angle for Alkene is: <table border="0" style="width: 100%;"> <tr> <td style="width: 25%;">A C_nH_{2n} and 109°</td> <td style="width: 25%;">B C_nH_{2n+2} and 120°</td> <td style="width: 25%;">C C_nH_{2n-2} and 120°</td> <td style="width: 25%;">D C_nH_{2n} and 120°</td> </tr> </table>	A C_nH_{2n} and 109°	B C_nH_{2n+2} and 120°	C C_nH_{2n-2} and 120°	D C_nH_{2n} and 120°
A C_nH_{2n} and 109°	B C_nH_{2n+2} and 120°	C C_nH_{2n-2} and 120°	D C_nH_{2n} and 120°		
4	General molecular formula and bond angle for Alkyne are: <table border="0" style="width: 100%;"> <tr> <td style="width: 25%;">A C_nH_{2n+2} and 109°</td> <td style="width: 25%;">B C_nH_{2n} and 120°</td> <td style="width: 25%;">C C_nH_{2n-2} and 180°</td> <td style="width: 25%;">D C_nH_{2n+2} and 180°</td> </tr> </table>	A C_nH_{2n+2} and 109°	B C_nH_{2n} and 120°	C C_nH_{2n-2} and 180°	D C_nH_{2n+2} and 180°
A C_nH_{2n+2} and 109°	B C_nH_{2n} and 120°	C C_nH_{2n-2} and 180°	D C_nH_{2n+2} and 180°		
5	General formula $C_{20}H_{38}$ is correspond to which of the following <table border="0" style="width: 100%;"> <tr> <td style="width: 25%;">A Alkanes</td> <td style="width: 25%;">B Alkenes</td> <td style="width: 25%;">C Alkynes</td> <td style="width: 25%;">D None of this</td> </tr> </table>	A Alkanes	B Alkenes	C Alkynes	D None of this
A Alkanes	B Alkenes	C Alkynes	D None of this		
6	Alkene that has eleven carbons, general molecular formula is.....: <table border="0" style="width: 100%;"> <tr> <td style="width: 25%;">A $C_{11}H_{24}$</td> <td style="width: 25%;">B $C_{11}H_{23}$</td> <td style="width: 25%;">C $C_{11}H_{22}$</td> <td style="width: 25%;">D $C_{11}H_{21}$</td> </tr> </table>	A $C_{11}H_{24}$	B $C_{11}H_{23}$	C $C_{11}H_{22}$	D $C_{11}H_{21}$
A $C_{11}H_{24}$	B $C_{11}H_{23}$	C $C_{11}H_{22}$	D $C_{11}H_{21}$		
7	IUPAC name of the following compound is..... <div style="text-align: center;"> $\begin{array}{c} \text{CH}_3 \\ \\ \text{CH}_3-\text{C}-\text{CH}_2-\text{CH}=\text{CH}_2 \\ \\ \text{CH}_3 \end{array}$ </div> <table border="0" style="width: 100%;"> <tr> <td style="width: 25%;">A 2,2-dimethyl-4-pentene</td> <td style="width: 25%;">B 4,4-dimethyl-1-pentene</td> <td style="width: 25%;">C 2,2-dimethyl-4-butene</td> <td style="width: 25%;">D 4,4-dimethyl-1-butene</td> </tr> </table>	A 2,2-dimethyl-4-pentene	B 4,4-dimethyl-1-pentene	C 2,2-dimethyl-4-butene	D 4,4-dimethyl-1-butene
A 2,2-dimethyl-4-pentene	B 4,4-dimethyl-1-pentene	C 2,2-dimethyl-4-butene	D 4,4-dimethyl-1-butene		
8	IUPAC name of following compound is..... <div style="text-align: center;"> $\text{H}_2\text{C}=\text{C}-\text{C}-\text{C}-\text{CH}_3$ </div> <table border="0" style="width: 100%;"> <tr> <td style="width: 25%;">A Pentane</td> <td style="width: 25%;">B Pentene</td> <td style="width: 25%;">C Butene</td> <td style="width: 25%;">D 4-methyl-butene</td> </tr> </table>	A Pentane	B Pentene	C Butene	D 4-methyl-butene
A Pentane	B Pentene	C Butene	D 4-methyl-butene		
9	IUPAC name of following compound is..... <div style="text-align: center;">  </div> <table border="0" style="width: 100%;"> <tr> <td style="width: 25%;">A 4-methyl-3-heptene</td> <td style="width: 25%;">B 4-methyl-4-heptene</td> <td style="width: 25%;">C 4-ethyl-3-heptene</td> <td style="width: 25%;">D 4-ethyl-4-heptene</td> </tr> </table>	A 4-methyl-3-heptene	B 4-methyl-4-heptene	C 4-ethyl-3-heptene	D 4-ethyl-4-heptene
A 4-methyl-3-heptene	B 4-methyl-4-heptene	C 4-ethyl-3-heptene	D 4-ethyl-4-heptene		
10	Which is the molecular formula of an alkyne? <table border="0" style="width: 100%;"> <tr> <td style="width: 25%;">A $C_{10}H_{18}$</td> <td style="width: 25%;">B C_9H_{18}</td> <td style="width: 25%;">C C_8H_{18}</td> <td style="width: 25%;">D $C_{10}H_{20}$</td> </tr> </table>	A $C_{10}H_{18}$	B C_9H_{18}	C C_8H_{18}	D $C_{10}H_{20}$
A $C_{10}H_{18}$	B C_9H_{18}	C C_8H_{18}	D $C_{10}H_{20}$		

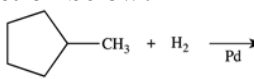


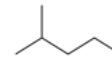
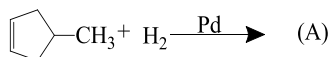
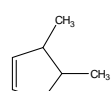
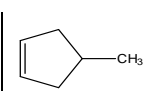
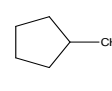

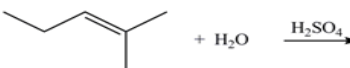

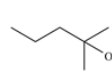

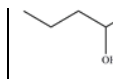
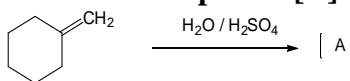

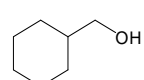

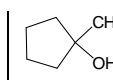
بنك الأسئلة في مقرر الكيمياء الطبية 2 (109-تحض)

Ques. no.	Question
11	<p>IUPAC name of following compound is.....</p> $\text{CH}_3-\text{C}\equiv\text{C}-\overset{\text{CH}_3}{\text{CH}}-\text{CH}_2-\text{CH}_3$ <p>A 4-methyl-2-hexyne B 4-methyl-1-hexyne C 4-methyl-2-pentyne D 4-methyl-1-pentyne</p>
12	<p>What is the IUPAC name of this compound?</p>  <p>A 5-Ethyl-4-methyl-4-heptene B 3-Ethyl-4-methyl-3-hexene C 3-Ethyl-4-methyl-4-heptene D 3-Ethyl-4-methyl-3-heptene</p>
13	<p>IUPAC name of following compound is.....</p>  <p>A 3,7-dimethyl-5-nonyne B 2-ethyl-6-methyl-3-octyne C 2,6-diethyl-5-nonyne D 3,7-dimethyl-4-nonyne</p>
14	<p>What is the IUPAC name of this compound?</p>  <p>A cis-3-Pentene B cis-2-Pentene C Ethylpropene D 2-ethylpentene</p>
15	<p>What is the IUPAC name of this compound?</p>  <p>A Methylbenzene B 2-Methyl-1,3-cyclohexadiene C 3-Methyl-1,3-cyclohexadiene D phenol</p>
16	<p>What is the structure of 2-methyl-3-hexene?</p> <p>A  B  C $(\text{CH}_3)_2\text{C}=\text{CH}(\text{CH}_2)\text{CH}_3$ D $(\text{CH}_3)_2\text{CHCH}=\text{CHCH}_2\text{CH}_3$</p>
17	<p>Correct IUPAC name of the following compound is:</p>  <p>A 2-ethyloctane B 2-ethyloctanal C 6-ethyl-6-octene D 3-ethyl-2-octene</p>
18	<p>Correct IUPAC name of the following compound is:</p>  <p>A 6-ethyl-7-methyl-3-octene B 7-ethyl-6-methyl-3-octene C 6-ethyl-7-methyloctene D 7-ethyl-6-methyloctene</p>
19	<p>Select the correct structure for IUPAC named 1,4-dimethylcyclohexane :</p> <p>A  B  C  D </p>
20	<p>What is the IUPAC name for the compound $\text{CH}_3\text{CH}=\text{CHCH}_2\text{CH}_3$?</p> <p>A Pentene B 2,3-Pentene C 3-Pentene D 2-Pentene</p>

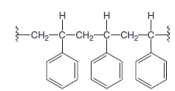
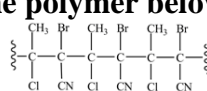
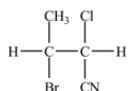
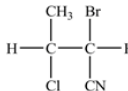
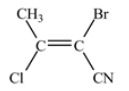
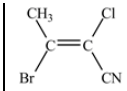
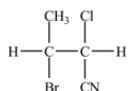
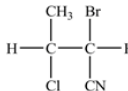
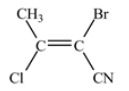
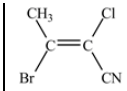
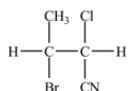
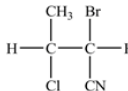
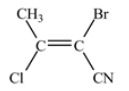
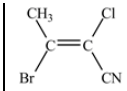
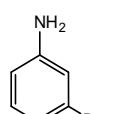
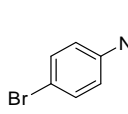
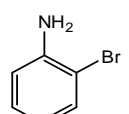
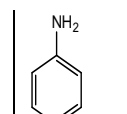
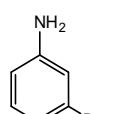
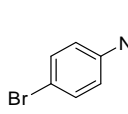
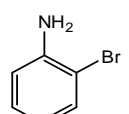
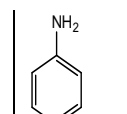
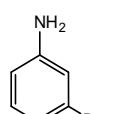
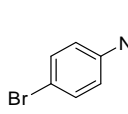
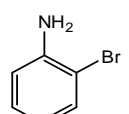
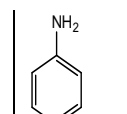
بنك الأسئلة في مقرر الكيمياء الطبية 2 (109-تحض)

Ques. no.	Question
21	The compounds 1-pentene and (z) or <i>cis</i> -2-pentene are an example of a pair of A Isotopes B Stereoisomers C Constitutional isomers D Identical molecules
22	The molecules (z) or <i>cis</i> -2-pentene and (E) or <i>trans</i> -2-pentene are an example of a pair of A Isotopes B Stereoisomers C Constitutional isomers D Identical molecules
23	Which statement is true about stereoisomer in given structure:  A D=E, and A= B B D≠ E, and A= B C D≠ E, and A≠ B D None of this
24	Which name is correct for the given molecule below:  A <i>cis</i> -2-methyl-3-heptene B <i>trans</i> -3,4-dimethyl-3-hexene C <i>cis</i> -5-methyl-4-heptene D <i>trans</i> -5-methyl-4-heptene
25	Stereoisomers are isomers that differ only in the..... A 3-D arrangement of atoms B 2-D arrangement of atoms C 1-D arrangement of atoms D All of this
26	Relation between (I) and (II) are:  A Stereoisomers B Constitutional Isomers C Identical molecules D None of the above
27	Relation between (I) and (II) molecules will be as:  A same molecules B Constitutional isomers C Stereoisomers D All of this
28	Which statement is true about <i>Polysubstituted Benzene</i> is: A When Benzene ring have one substituent only B When Benzene ring have two substituent only C When Benzene ring have three or more substituent D Above all statements are true
29	Which structure is <i>trans</i> -3-hexene? A  B  C  D 
30	Which name is a valid IUPAC name of an unsaturated hydrocarbon? A 2,3-Dimethyl-3-hexyne B <i>trans</i> -1-Hexene C <i>trans</i> -3-Pentyne D 2-Methyl-2-butene

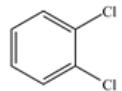
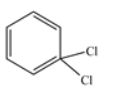
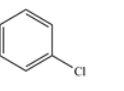
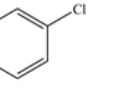
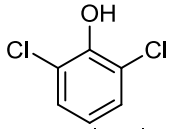
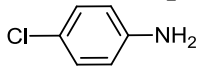
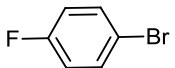
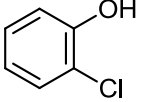
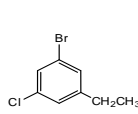
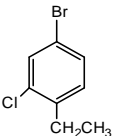
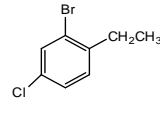
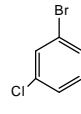
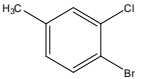
بنك الأسئلة في مقرر الكيمياء الطبية 2 (109-تحض)

Ques. no.	Question
31	What is the product of the reaction 2-pentene + H ₂ $\xrightarrow{\text{Pd}}$? A Pentane B 2-Pentane C Ethane+ Propane D 2-Pentyne
32	Hydrogenation of Alkene in the presence of Pd catalyst means: A Addition of H ₂ at Alkene double bond B Removing of H ₂ from Alkane C There will be no reaction D Addition of water at Alkene double bond
33	During Hydrogenation of Alkene, which catalyst is necessary: A H ₂ SO ₄ as catalyst B HNO ₃ as catalyst C Pd metal catalyst D HCl as catalyst
34	During Hydration (addition of H ₂ O) of Alkene, which catalyst is necessary A H ₂ SO ₄ as catalyst B Pt metal catalyst C Pd metal catalyst D Zn as catalyst
35	What product is formed from the reaction below?  A  B  C  D No reaction
36	Product (A) in given reaction is:  A  B  C  D 
37	During hydrogenation of 1-pentene in the presence of Pd catalyst, the product [A] is: A Propane B Butane C Pentane D Hexane
38	Which statement is correct for the hydrogenation of Alkene: A Pd catalyst is needed and Alkene convert to Alkyne B Pd catalyst is needed and Alkene convert to Alkane C Pd catalyst is NOT needed, Alkene convert to Alkyne D Pd catalyst is NOT needed and Alkene convert to Alkane
39	What product is formed in the hydration reaction shown below?  A  B  C  D 
40	Complete the following reaction and find compound [A]:  A  B  C  D 

بنك الأسئلة في مقرر الكيمياء الطبية 2 (109-تحض)

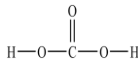
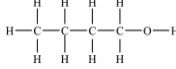
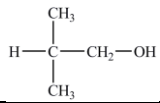
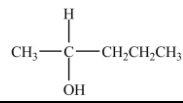
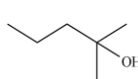
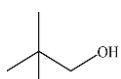
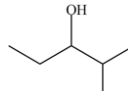
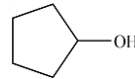
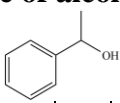
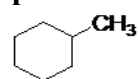
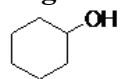
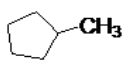
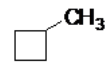
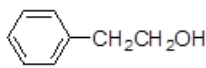
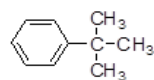
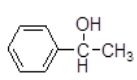
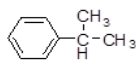
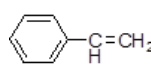
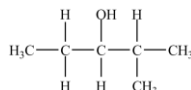
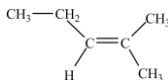
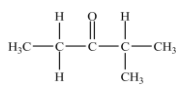
Ques. no.	Question				
41	Which statement is correct about Polymers: <table border="0" style="width: 100%;"> <tr> <td style="width: 25%;">A Polymers are small molecule</td> <td style="width: 25%;">B Polymers are large molecules made of repeating units of monomers</td> <td style="width: 25%;">C Polymers made of one unit of monomers</td> <td style="width: 25%;">D None of the above</td> </tr> </table>	A Polymers are small molecule	B Polymers are large molecules made of repeating units of monomers	C Polymers made of one unit of monomers	D None of the above
A Polymers are small molecule	B Polymers are large molecules made of repeating units of monomers	C Polymers made of one unit of monomers	D None of the above		
42	Given below is a Polymer, the name of monomer from which it made is?  <table border="0" style="width: 100%;"> <tr> <td style="width: 25%;">A Methyl Benzene</td> <td style="width: 25%;">B Ethyl Benzene</td> <td style="width: 25%;">C Styrene</td> <td style="width: 25%;">D Propyl Benzene</td> </tr> </table>	A Methyl Benzene	B Ethyl Benzene	C Styrene	D Propyl Benzene
A Methyl Benzene	B Ethyl Benzene	C Styrene	D Propyl Benzene		
43	What monomer is used to form the polymer below?  <table border="0" style="width: 100%;"> <tr> <td style="width: 25%;">A </td> <td style="width: 25%;">B </td> <td style="width: 25%;">C </td> <td style="width: 25%;">D </td> </tr> </table>	A 	B 	C 	D 
A 	B 	C 	D 		
44	Polymerization is the joining together of.....to make polymers. <table border="0" style="width: 100%;"> <tr> <td style="width: 25%;">A Monomer</td> <td style="width: 25%;">B Atoms</td> <td style="width: 25%;">C Compound</td> <td style="width: 25%;">D None of the above</td> </tr> </table>	A Monomer	B Atoms	C Compound	D None of the above
A Monomer	B Atoms	C Compound	D None of the above		
45	During polymerization of vinyl chloride, the polymer name is: <table border="0" style="width: 100%;"> <tr> <td style="width: 25%;">A Polyvinylacetate</td> <td style="width: 25%;">B Polyvinylchloride</td> <td style="width: 25%;">C Polystyrene</td> <td style="width: 25%;">D Polyethylene</td> </tr> </table>	A Polyvinylacetate	B Polyvinylchloride	C Polystyrene	D Polyethylene
A Polyvinylacetate	B Polyvinylchloride	C Polystyrene	D Polyethylene		
46	Benzene is..... With three double bonds. <table border="0" style="width: 100%;"> <tr> <td style="width: 25%;">A Aromatic compound</td> <td style="width: 25%;">B Tetrahedralin shape</td> <td style="width: 25%;">C Linear in shape</td> <td style="width: 25%;">D Polar compound</td> </tr> </table>	A Aromatic compound	B Tetrahedralin shape	C Linear in shape	D Polar compound
A Aromatic compound	B Tetrahedralin shape	C Linear in shape	D Polar compound		
47	Which statement is true about Benzene: <table border="0" style="width: 100%;"> <tr> <td style="width: 25%;">A Benzene is planer molecule and have bond angle 109°</td> <td style="width: 25%;">B Benzene is planer molecule and have Bond angle 90°</td> <td style="width: 25%;">C Benzene is planer molecule and have bond angle 120°</td> <td style="width: 25%;">D Option (a) and (b) are correct</td> </tr> </table>	A Benzene is planer molecule and have bond angle 109°	B Benzene is planer molecule and have Bond angle 90°	C Benzene is planer molecule and have bond angle 120°	D Option (a) and (b) are correct
A Benzene is planer molecule and have bond angle 109°	B Benzene is planer molecule and have Bond angle 90°	C Benzene is planer molecule and have bond angle 120°	D Option (a) and (b) are correct		
48	The compounds <i>o</i> -chlorophenol and <i>m</i> -chlorophenol are examples of <table border="0" style="width: 100%;"> <tr> <td style="width: 25%;">A Molecules those are identical.</td> <td style="width: 25%;">B Molecules that are constitutional isomers</td> <td style="width: 25%;">C Molecules that are stereoisomers</td> <td style="width: 25%;">D Molecules thatare isotopes.</td> </tr> </table>	A Molecules those are identical.	B Molecules that are constitutional isomers	C Molecules that are stereoisomers	D Molecules thatare isotopes.
A Molecules those are identical.	B Molecules that are constitutional isomers	C Molecules that are stereoisomers	D Molecules thatare isotopes.		
49	Which structure is <i>m</i> -bromoaniline: <table border="0" style="width: 100%;"> <tr> <td style="width: 25%;">A </td> <td style="width: 25%;">B </td> <td style="width: 25%;">C </td> <td style="width: 25%;">D </td> </tr> </table>	A 	B 	C 	D 
A 	B 	C 	D 		
50	Aminobenzene structure is given below which is also known as: <table border="0" style="width: 100%;"> <tr> <td style="width: 25%;">A Phenol</td> <td style="width: 25%;">B Methyl benzene</td> <td style="width: 25%;">C Aniline</td> <td style="width: 25%;">D None of the above</td> </tr> </table>	A Phenol	B Methyl benzene	C Aniline	D None of the above
A Phenol	B Methyl benzene	C Aniline	D None of the above		

بنك الأسئلة في مقرر الكيمياء الطبية 2 (109-تحض)

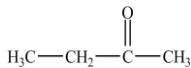
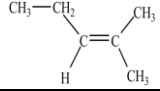
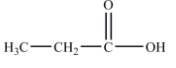
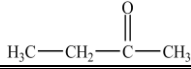
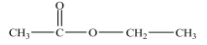

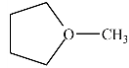

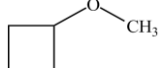
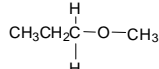
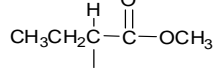
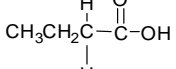
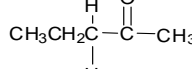

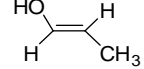
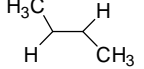
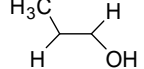

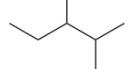
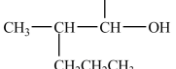
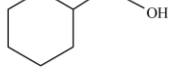
Ques. no.	Question
51	<p>What is the structure of <i>ortho</i>-dichlorobenzene?</p> <p>A  B  C  D </p>
52	<p>What is the IUPAC name of the compound below?</p> <p></p> <p>A 1,3-Dichloro-2-oxybenzene B 1,3-Dichloro-2-hydroxylbenzene C 2,6-Dichlorophenol D 1,5-Dichlorophenol</p>
53	<p>Following benzene is disubstituted, name of compound is:</p> <p></p> <p>A p-chlorotoluene B o-chlorophenol C o-chlorotoluene D p-chloroaniline</p>
54	<p>Name of given compound is:</p> <p></p> <p>A p-fluorobromo benzene B o-fluorobromo benzene C o-bromofluoro benzene D p-bromofluoro benzene</p>
55	<p>Benzene is disubstituted, name of compound is:</p> <p></p> <p>A p-chlorophenol B m-chlorophenol C o-chlorophenol D o-chlorobenzene</p>
56	<p>4-bromo-2-chloro-1-ethylbenzene is :</p> <p>A  B  C  D </p>
57	<p>What is the name of Polysubstituted Benzene given below</p> <p></p> <p>A 2-chloro-3-bromotoluene B 4-bromo-3-chloroaniline C 4-bromo-5-chlorotoluene D 4-bromo-3-chlorotoluene</p>
58	<p>Which statement concerning the compound 1-ethylcyclohexene is false?</p> <p>A It contains a ring of six carbons. B It contains one C=C bond. C It contains a two carbon substituent on the parent carbon chain. D It is a saturated hydrocarbon.</p>

بنك الأسئلة في مقر الكيمياء الطبية 2 (109-تحض)

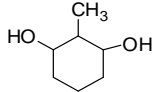
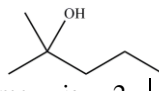
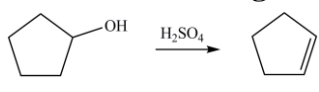
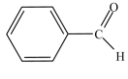
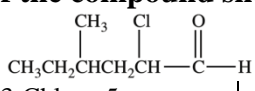
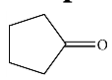
(Chem 109 Chapter 12)

Ques. no.	Question						
1	Identify the Alcohols functional group, which refers to...						
A	Carboxylate group	B	Hydroxyl group	C	Sulfhydryl group	D	Carbonyl group
2	Which is a secondary alcohol?						
A		B		C		D	
3	Identify the primary alcohol, which refers to....						
A		B		C		D	
4	Classify the given compound as the type of alcohol which refers to...						
							
A	Secondary alcohol	B	Primary alcohol	C	Tertiary alcohol	D	None of the above
5	What is the shape around the oxygen atom in an alcohol?						
A	Tetrahedral bond angle of 109.5°(bent shape)	B	Trigonal pyramidal	C	Trigonal planar	D	None of the above
6	Which alcohol is most soluble in water?						
A	(CH ₃) ₂ CHCH ₂ OH	B	CH ₃ (CH ₂) ₆ OH	C	CH ₃ (CH ₂) ₁₁ OH	D	All of the above
7	Compound which has the higher boiling point is.....						
A		B		C		D	
8	What is the major product of the dehydration of the compound given below?						
							
A		B		C		D	
9	Identify the commonly used reagent for alcohol dehydration.						
A	K ₂ Cr ₂ O ₇	B	H ₂ SO ₄	C	Cl ₂	D	H ₂ O
10	What is/are the carbonyl product(s) formed when the alcohol given below is oxidized with K ₂ Cr ₂ O ₇ / H ₂ SO ₄ ?						
							
A	CH ₃ (CH ₂) ₄ COOH	B		C		D	No reaction

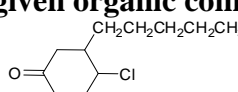
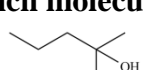
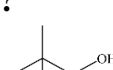
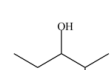
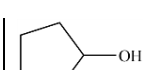
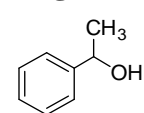
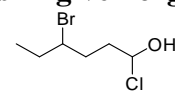
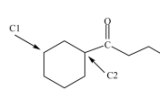
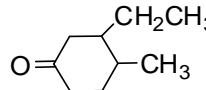
بنك الأسئلة في مقرر الكيمياء الطبية 2 (109-تحض)

Ques. no.	Question
11	<p>What is/are the carbonyl product(s) formed when the alcohol given below is oxidized with $K_2Cr_2O_7 / H_2SO_4$?</p> <p style="text-align: center;"> $\begin{array}{c} \text{OH} \\ \\ \text{H}_3\text{C}-\text{CH}_2-\text{C}-\text{CH}_3 \\ \\ \text{CH}_3 \end{array}$ </p> <p> A  B  C  D No reaction </p>
12	<p>Identify the correct compound with functional group of ether.</p> <p> A  B  C  D None of the above </p>
13	<p>Chemical reaction as shown below, identify the final product.</p> <p style="text-align: center;"> $\begin{array}{c} \text{OH} \\ \\ \text{H}_3\text{C}-\text{C}_5\text{H}_8-\text{CH}_3 \end{array} \xrightarrow{K_2Cr_2O_7 / H_2SO_4}$ </p> <p> A 2,5-dimethylcyclopentanol B 2,5-dimethylcyclopentanone C 2,5-dimethylcyclopentanal D 2,5-dimethylcyclopentane </p>
14	<p>Identify the compound which has the highest boiling point.</p> <p> A $CH_3(CH_2)_4CH_2OH$ B $CH_3(CH_2)_2O(CH_2)_2CH_3$ C $CH_3(CH_2)_5CH_3$ D None of this </p>
15	<p>What is the common name of $CH_3(CH_2)_2-O-(CH_2)_2CH_3$</p> <p> A Diethyl ether B Butyl butyl ether C Dipropyl ether D Ethylmethyl ether </p>
16	<p>What is the structure of Butylmethylether?</p> <p> A $CH_3-O-CH_2CH_2CH_2CH_3$ B  C  D  </p>
17	<p>What is the IUPAC name of the compound given below?</p> <p style="text-align: center;"> $\begin{array}{c} \text{CH}_3 \qquad \qquad \text{OH} \\ \qquad \qquad \qquad \\ \text{H}_2\text{C}-\text{C}-\text{CH}_2\text{CH}_2-\text{C}-\text{CH}_2\text{CH}_2\text{CH}_2\text{CH}_3 \\ \qquad \qquad \qquad \\ \text{CH}_3 \qquad \text{CH}_2\text{CH}_3 \qquad \text{CH}_2\text{CH}_3 \end{array}$ </p> <p> A 3,6-Diethyl-3-methyl-8-decanol B 3,6-Diethyl-3-methyl-8-decanol C 5,8-Diethyl-8-methyl-5-decanol D 3-Butyl-6-ethyl-6-methyl-3-octanol </p>
18	<p>Identify the product when $CH_3CH_2CH_2CH_2-OH$ is oxidize</p> <p> A  B  C  D  </p>
19	<p>What will be the product when ethanol is dehydration by conc. H_2SO_4....</p> <p style="text-align: center;"> $\begin{array}{c} \text{H} \quad \text{H} \\ \diagdown \quad \diagup \\ \text{C} \\ \diagup \quad \diagdown \\ \text{H}_3\text{C} \quad \text{OH} \end{array}$ </p> <p> A  B  C  D  </p>
20	<p>Which compound can oxidize and finally convert to a carboxylic acid?</p> <p> A  B  C  D  </p>

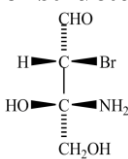
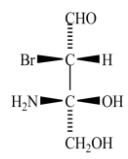
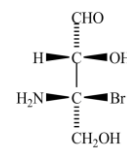
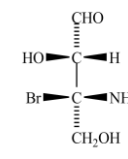
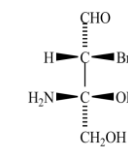
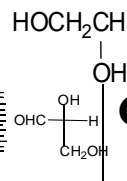
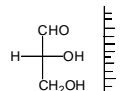
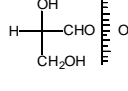
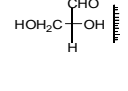
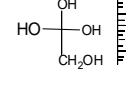





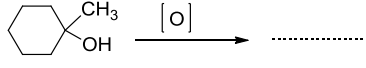



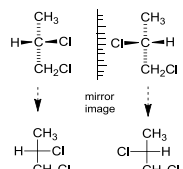
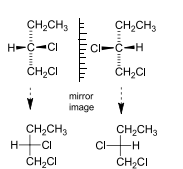
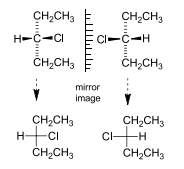
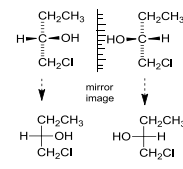
بنك الأسئلة في مقرر الكيمياء الطبية 2 (109-تحض)

Ques. no.	Question
21	<p>What is the IUPAC name of the compound below?</p>  <p> A 2-Methylcyclohexane-1,3-diol B 2-Methyl-3-hydroxyphenol C 2,6-dihydroxytoluene D 1-Methyl-2,6-cyclohexanediol </p>
22	<p>Which statement is incorrect for the following given organic compound?</p>  <p> A It is a tertiary alcohol B Its name is 2-methyl-2-pentanol C Its molecular formula is C₆H₁₄O D It can be oxidized to give a ketone </p>
23	<p>Choose the correct statement for the following chemical reaction.</p>  <p> A An H atom and an OH group have been removed from the reactant B The OH group was removed from the reactant C The OH group was replaced by an H atom D Two H atoms were removed from the reactant </p>
24	<p>Which of the following represents the general condensed formula for an aldehyde?</p> <p> A RCOOH B RCHO C RCOR D RCH₂OH </p>
25	<p>What is the common name of the compound shown below?</p>  <p> A HydroxyBenzene B Acetaldehyde C Phenol D Benzaldehyde </p>
26	<p>What is the IUPAC name of the compound shown below?</p>  <p> A 5-Chloro-3-methylhexanal B 3-Chloro-5-methylhexanone C 2-Chloro-4-methylhexanal D 2-Chloro-4-methylhexanone </p>
27	<p>What is the IUPAC name of the compound shown below?</p>  <p> A 2-Pentanone B Cyclopentanone C Cyclopropanone D Cyclobutanone </p>
28	<p>Identify the organic compound, which has highest boiling point.</p> <p> A CH₃(CH₂)₅CH₃ B CH₃(CH₂)₄CHO C CH₃(CH₂)₄CH₂OH D CH₃CH₂OH </p>
29	<p>Which compound is highly miscible in water?</p> <p> A CH₃(CH₂)₅CHO B CH₃(CH₂)₄COCH₂C H₃ C CH₃CH₂CHO D CH₃CH₂CH₃ </p>
30	<p>Which compound is soluble in heptane, but not soluble in water?</p> <p> A (CH₃)₂CH(CH₂)₅CHO B CH₃CH₂CH₃ C CH₃CH₂CHO D None of the above </p>


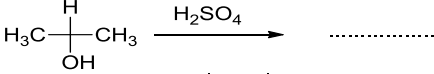
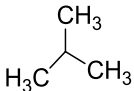
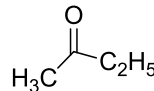
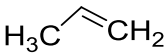
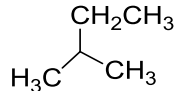
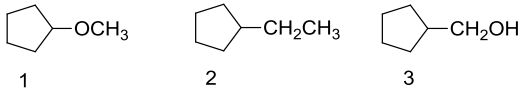


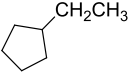
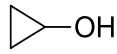
بنك الأسئلة في مقرر الكيمياء الطبية 2 (109-تحض)

Ques. no.	Question
31	Identify the Tollens reagent, which is... A $K_2Cr_2O_7$ B H_2SO_4 C Ag_2O in aqueous NH_4OH D Cl_2
32	Which compound(s) would give a positive Tollens reagent test? A Alcohols B Aldehydes C Ketones D Ethers
33	What is the product of the reduction of an aldehyde? A Primary alcohols B Ketones C Carboxylic acids D Amines
34	What is the IUPAC name of the given organic compound?  A 4-Chloro-3-pentylcycloheptanone B 1-Chloro-2-pentyl-4-cyclohexanone C 4-Chloro-3-pentylcyclohexanone D 4-Chloro-3-pentylhexanone
35	Which statement is true about organic compounds when refer as Isomers? A They differ in the way that atoms are connected to one another B They have different functional groups C They have the same molecular formula but the different structures D All of the above statements are correct
36	Which molecule is chiral? A  B  C  D 
37	Identify number of Chirality Centers in given organic compound.  A 1 B 2 C 3 D 4
38	Identify number of Chirality Centers in given organic compound.  A 1 B 2 C 3 D 4
39	Identify the Chirality Centers at labelled carbon C1 and C2  A C1 is a chirality center and C2 is not a chirality center B C1 is not a chirality center and C2 is a chirality center C C1 and C2 are both chirality centers D Neither C1 nor C2 are chirality centers
40	How many Chirality Centers are present in the compound given below?  A 2 B 3 C 4 D 5

بنك الأسئلة في مقرر الكيمياء الطبية 2 (109-تحض)

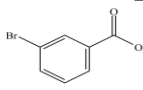
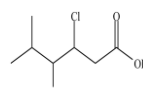
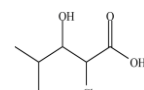
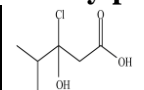
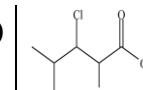
Ques. no.	Question
41	<p>Consider the stereoisomers (A–E) drawn below: Which structure is an enantiomer of structure A?</p> <div style="display: flex; justify-content: space-around; align-items: flex-start;"> <div style="text-align: center;">  <p>A</p> </div> <div style="text-align: center;">  <p>B</p> </div> <div style="text-align: center;">  <p>C</p> </div> <div style="text-align: center;">  <p>D</p> </div> <div style="text-align: center;">  <p>E</p> </div> </div> <p>A Structure B B Structure C C Structure D D Structure E</p>
42	<p>Select the enantiomers stereoisomers of glyceraldehyde, using Fischer projection formula.</p> <div style="text-align: center; margin-bottom: 10px;"> $\text{HOCH}_2\text{CHCHO}$  </div> <div style="display: flex; justify-content: space-around;"> <div style="text-align: center;"> <p>A</p>  </div> <div style="text-align: center;"> <p>B</p>  </div> <div style="text-align: center;"> <p>C</p>  </div> <div style="text-align: center;"> <p>D</p>  </div> </div>
43	<p>Fill in the blank with correct statement; Enantiomers are stereoisomers because of.....</p> <p>A Not mirror images of each other B Nonsuperimposable mirror images of each other C Cis-trans isomers of each other D All of the above</p>
44	<p>Identify the product when Cyclohexanol is dehydrated in the presence of H_2SO_4.</p> <div style="text-align: center; margin-bottom: 10px;">  </div> <div style="display: flex; justify-content: space-around;"> <div style="text-align: center;"> <p>A</p>  </div> <div style="text-align: center;"> <p>B</p>  </div> <div style="text-align: center;"> <p>C</p>  </div> <div style="text-align: center;"> <p>D</p>  </div> </div>
45	<p>Identify the product when given alcohol is carry to oxidization...</p> <div style="text-align: center; margin-bottom: 10px;">  </div> <div style="display: flex; justify-content: space-around;"> <div style="text-align: center;"> <p>A</p>  </div> <div style="text-align: center;"> <p>B</p>  </div> <div style="text-align: center;"> <p>C</p>  </div> <div style="text-align: center;"> <p>D</p> <p>No reaction</p> </div> </div>
46	<p>Fischer projections of both enantiomers for given compound will be...</p> <div style="text-align: center; margin-bottom: 10px;"> $\text{CH}_3\text{CH}_2\text{CH}(\text{Cl})\text{CH}_2\text{Cl}$ </div> <div style="display: flex; justify-content: space-around;"> <div style="text-align: center;"> <p>A</p>  </div> <div style="text-align: center;"> <p>B</p>  </div> <div style="text-align: center;"> <p>C</p>  </div> <div style="text-align: center;"> <p>D</p>  </div> </div>

بنك الأسئلة في مقرر الكيمياء الطبية 2 (109-تحض)

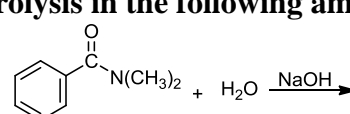

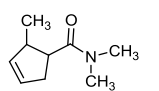
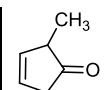
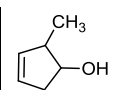
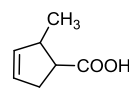
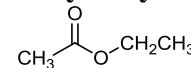
Ques. no.	Question
47	<p>The IUPAC name for the following compound is.....</p> <div style="text-align: center;">  </div> <p> A 2-methylcyclopentanal B 2-methylcyclopentanol C 1-methylcyclopentanone D 2-methylcyclopentanone </p>
48	<p>Identify the product when given Alcohol is dehydrated in the presence of H₂SO₄.</p> <div style="text-align: center;">  </div> <p> A  B  C  D  </p>
49	<p>Select the compounds 1, 2 and 3 in order of increasing boiling point, which is..</p> <div style="text-align: center;">  </div> <p> A 2 → 1 → 3 B 3 → 2 → 1 C 1 → 3 → 2 D None of the above </p>
50	<p>Select the compound that is water soluble....</p> <p> A  B  C  D  </p>

بنك الأسئلة في مقرر الكيمياء الطبية 2 (109-تحض)

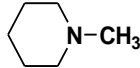
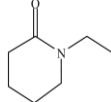
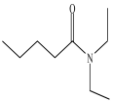
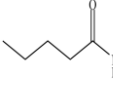
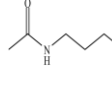
(Chem 109 Chapter 13)

Ques. no.	Question
1	Which of these compounds is a secondary amide? <div style="display: flex; justify-content: space-around;"> <div style="text-align: center;"> A $\text{H}_3\text{C}-\overset{\text{O}}{\parallel}{\text{C}}-\text{CH}_2-\text{NH}_2$ </div> <div style="text-align: center;"> B $\text{H}_3\text{C}-\overset{\text{O}}{\parallel}{\text{C}}-\text{CH}_2-\text{N}(\text{CH}_3)_2$ </div> <div style="text-align: center;"> C $\text{H}_3\text{C}-\text{CH}_2-\overset{\text{O}}{\parallel}{\text{C}}-\text{N}(\text{CH}_3)_2$ </div> <div style="text-align: center;"> D $\text{H}_3\text{C}-\overset{\text{H}}{\mid}{\text{N}}-\overset{\text{O}}{\parallel}{\text{C}}-\text{CH}_3$ </div> </div>
2	What is the IUPAC name of the compound given below? <div style="text-align: center;"> $\begin{array}{c} \text{CH}_3 \quad \text{O} \\ \mid \quad \parallel \\ \text{CH}_3-\text{C}-\text{C}-\text{OH} \\ \mid \\ \text{CH}_2\text{CH}_2\text{CH}_3 \end{array}$ </div> <div style="display: flex; justify-content: space-around;"> <div style="text-align: center;"> A 2-Methyl-2-propylpropanoic acid </div> <div style="text-align: center;"> B 2-Methyl-2-propyl-1-propanoic acid </div> <div style="text-align: center;"> C 2,2-Dimethyl pentanoic acid </div> <div style="text-align: center;"> D 2,2-Dimethyl-1-pentanoic acid </div> </div>
3	Which statement about the labeled carbons in the compound below is true? <div style="text-align: center;"> $\begin{array}{c} \text{C1} \quad \text{C2} \quad \text{C3} \quad \text{O} \\ \swarrow \quad \downarrow \quad \searrow \quad \parallel \\ \text{H}_3\text{C}-\text{CH}_2-\text{C}-\text{NH}_2 \end{array}$ </div> <div style="display: flex; justify-content: space-around;"> <div style="text-align: center;"> A C1 is an α carbon and C2 is a β carbon </div> <div style="text-align: center;"> B C2 is an α carbon and C1 is a β carbon </div> <div style="text-align: center;"> C C3 is an α carbon and C2 is a β carbon </div> <div style="text-align: center;"> D C2 is an α carbon and C3 is a β carbon </div> </div>
4	What is the common name of the compound given below? <div style="text-align: center;">  </div> <div style="display: flex; justify-content: space-around;"> <div style="text-align: center;"> A <i>m</i>-Bromobenzoic acid </div> <div style="text-align: center;"> B 3-Bromoaceto benzoic acid </div> <div style="text-align: center;"> C <i>o</i>-Bromobenzene carboxylic acid </div> <div style="text-align: center;"> D 3-Bromo-1-acetobenzoic acid </div> </div>
5	What is the IUPAC name of the compound given below? <div style="text-align: center;"> $\text{CH}_3\text{CH}_2\text{CH}_2\text{CH}_2\text{CH}_2\text{CH}_2-\overset{\text{O}}{\parallel}{\text{C}}-\text{OCH}_2\text{CH}_2\text{CH}_3$ </div> <div style="display: flex; justify-content: space-around;"> <div style="text-align: center;"> A Heptyl propanoate </div> <div style="text-align: center;"> B Hexyl propanoate </div> <div style="text-align: center;"> C Propyl heptanoate </div> <div style="text-align: center;"> D 4-Decanoate </div> </div>
6	The general test for carboxylic acids is: <div style="display: flex; justify-content: space-around;"> <div style="text-align: center;"> A Reduction test </div> <div style="text-align: center;"> B Iodoform test </div> <div style="text-align: center;"> C Acidity test </div> <div style="text-align: center;"> D Oxidation test </div> </div>
7	Reaction between an alcohol and a carboxylic acid is called: <div style="display: flex; justify-content: space-around;"> <div style="text-align: center;"> A Neutralization </div> <div style="text-align: center;"> B Dehydration </div> <div style="text-align: center;"> C Esterification </div> <div style="text-align: center;"> D Reduction </div> </div>
8	What is the IUPAC name of the compound given below? <div style="text-align: center;"> $\text{H}_3\text{C}-\text{CH}_2-\overset{\text{O}}{\parallel}{\text{C}}-\text{N}(\text{CH}_3)_2$ </div> <div style="display: flex; justify-content: space-around;"> <div style="text-align: center;"> A <i>N,N</i>-dimethyl propanamide </div> <div style="text-align: center;"> B <i>N,N</i>-dimethyl ethylamide </div> <div style="text-align: center;"> C Dimethyl propanamide </div> <div style="text-align: center;"> D Dimethylamino propanamide </div> </div>
9	What is the structure of 2-chloro-3-hydroxy-4-methylpentanoic acid? <div style="display: flex; justify-content: space-around;"> <div style="text-align: center;"> A  </div> <div style="text-align: center;"> B  </div> <div style="text-align: center;"> C  </div> <div style="text-align: center;"> D  </div> </div>
10	Which compound has the highest boiling point? <div style="display: flex; justify-content: space-around;"> <div style="text-align: center;"> A $(\text{CH}_3)_2\text{CHCH}_2\text{CHO}$ </div> <div style="text-align: center;"> B $\text{CH}_3\text{CH}_2\text{CH}_2\text{CH}_2\text{CH}_2\text{COOH}$ </div> <div style="text-align: center;"> C $(\text{CH}_3)_2\text{CHCH}_2\text{CH}_2\text{CH}_2\text{OH}$ </div> <div style="text-align: center;"> D $\text{CH}_3(\text{CH}_2)_6\text{CH}_3$ </div> </div>

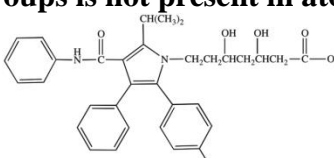
بنك الأسئلة في مقرر الكيمياء الطبية 2 (109-تحض)

Ques. no.	Question
11	Which amide has the lowest boiling point? A $\text{CH}_3(\text{CH}_2)_5\text{CONH}_2$ B $\text{CH}_3\text{CH}_2\text{CON}(\text{CH}_2\text{CH}_3)_2$ C $\text{CH}_3(\text{CH}_2)_4\text{CONHCH}_3$ D $\text{CH}_3(\text{CH}_2)_7\text{CONH}_2$
12	Which types of compounds are formed when Carboxylic acids react with bases such as NaOH? A Alcohols B Carboxylate salts C Esters D amides
13	Hydrolysis of an ester by an aqueous base is called as: A Esterification B Saponification C Neutralization D Dehydration
14	Which of the following properly describes soaps? A Fatty acids B Salts of carboxylic acids that have a long hydrocarbon chain C Salts of carboxylic acids that have a short hydrocarbon chain D Carboxylic acids
15	What organic product is formed when a carboxylic acid reacts with an alcohol in the presence of conc. sulfuric acid? A Ether B Ester C Ketone D Amide
16	Identify the products of hydrolysis in the following amide.  A $\text{C}_6\text{H}_5\text{COOH}$ + $(\text{CH}_3)_2\text{NH}$ B $\text{C}_6\text{H}_5\text{COOH}$ + CH_3NH_2 C $\text{C}_6\text{H}_5\text{COONa}$ + $(\text{CH}_3)_2\text{NH} + \text{H}_2\text{O}$ D $\text{C}_6\text{H}_5\text{CON}(\text{CH}_3)_2$ + $\text{H}_2\text{O} + \text{NaOH}$
17	Arrange the following compounds in order to increasing boiling points. a) $\text{CH}_3\text{CH}_2\text{CH}(\text{CH}_3)_2$ b) $\text{CH}_3\text{CH}_2\text{COOH}$ c) $\text{CH}_3\text{CH}_2\text{COCH}_3$ A $b < c < a$ B $b < a < c$ C $a < c < b$ D $a < b < c$
18	What are the products of the reaction shown? $\text{CH}_3\text{CH}_2\text{CH}_2\text{CH}_2\text{CH}_2\text{COOH} + $  $\xrightarrow{\text{H}_2\text{SO}_4}$ A Hexyl cyclopentanoate B Cyclopentyl hexanoate C Pentyl cyclopentanoate D Cyclopentyl pentanoate
19	Which reagent, when reacted with dimethylamine, would produce the compound shown below?  A  B  C  D $\text{N}(\text{CH}_3)_3$
20	What products are formed in the acid hydrolysis of the ester shown below?  A Ethanol and acetic acid B Acetic acid and water C Propanoic acid and ethanol D Acetic acid and ethane

بنك الأسئلة في مقر الكيمياء الطبية 2 (109-تحض)

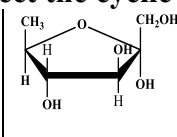
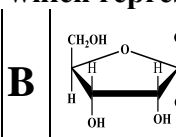
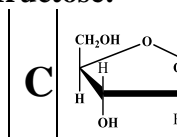
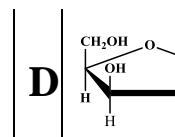
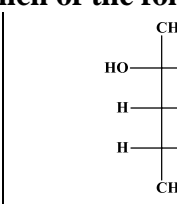
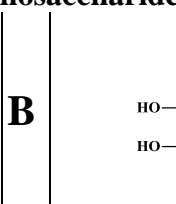
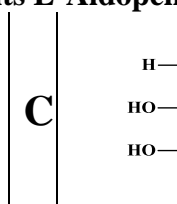
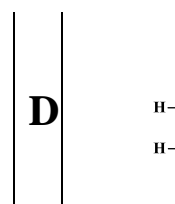
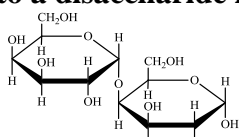
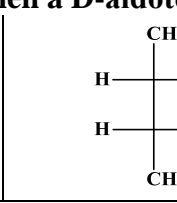
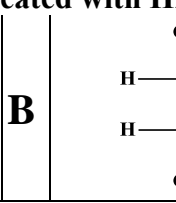
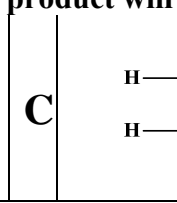
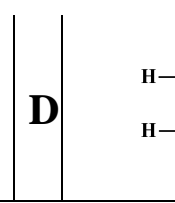
Ques. no.	Question						
21	What products are formed in the base hydrolysis of the ester shown below with NaOH?						
	$\text{CH}_3-\overset{\text{O}}{\parallel}{\text{C}}-\text{O}-\text{CH}_2-\text{CH}_3$						
A	Ethanol and acetic acid	B	Acetic acid and sodium ethoxide	C	Methanol and sodium propanoate	D	Sodium acetate and water
22	The IUPAC name of the compound $\text{CH}_3\text{CH}_2\text{CONHCH}_3$ is:						
A	Methylpropylamine	B	Butylamine	C	N-methyl propanamide	D	All are correct
23	Which compound is the most soluble in water?						
A	$\text{CH}_3\text{CH}_2\text{CH}_2\text{COOH}$	B	$\text{CH}_3(\text{CH}_2)_6\text{COOH}$	C	$\text{CH}_3(\text{CH}_2)_6\text{CH}_3$	D	$\text{CH}_3(\text{CH}_2)_6\text{NH}_2$
24	Which statement concerning carboxylic acids is incorrect?						
A	The functional group of a carboxylic acid is abbreviated as COOH or CO_2H .	B	Carboxylic acids are hydrogen ion donors.	C	The presence of carboxylic acid increases $[\text{H}_3\text{O}^+]$ in an aqueous solution relative to water.	D	Carboxylic acid with a strong base produces a water-insoluble carboxylate salt.
25	Identify the reagents which can be used to carry out the following reaction.						
	$\text{CH}_3\text{COOH} \xrightarrow{\quad ? \quad} \text{CH}_3\text{COOC}_2\text{H}_5$						
A	$\text{C}_2\text{H}_5\text{OH}$	B	CH_3OH	C	$\text{C}_2\text{H}_5\text{OH}/\text{H}_2\text{SO}_4$	D	$\text{CH}_3\text{OH}/\text{H}_2\text{SO}_4$
26	Select the correct name of the following structure $(\text{CH}_3)_2\text{CHCH}_2\text{CH}_2\text{COOH}$						
A	Pentanoic acid	B	4-Methylpentanoic acid	C	Hexanoic acid	D	2-Methyl pentanoic acid
27	Classify the following amine as:						
							
A	Primary amine	B	Tertiary amine	C	Secondary amine	D	Quaternary amine
28	What is the IUPAC name of the compound shown below?						
	$\text{CH}_3\text{CH}_2\text{CH}_2-\overset{\text{H}}{\text{N}}-\text{CH}_2\text{CH}_2\text{CH}_2\text{CH}_2\text{CH}_2\text{CH}_3$						
A	Propylhexylamine	B	N-propyl-1-hexanamine	C	N-hexyl-1-propanamine	D	Hexylpropylamine
29	What amide is formed when pentanoic acid is heated with ethylamine						
A		B		C		D	
30	Which compound has the highest boiling point?						
A	$(\text{CH}_3)_2\text{CHCH}_2\text{COOCH}_3$	B	$\text{CH}_3(\text{CH}_2)_6\text{NH}_2$	C	$(\text{CH}_3)_2\text{CH}(\text{CH}_2)_4\text{OH}$	D	$\text{CH}_3(\text{CH}_2)_6\text{CH}_3$

بنك الأسئلة في مقرر الكيمياء الطبية 2 (109-تحض)

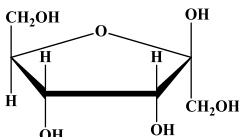
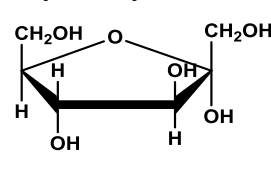
Ques. no.	Question
31	<p>What is the IUPAC name of the amine salt shown below?</p> $\text{CH}_3\text{CH}_2\text{CH}_2-\overset{\text{CH}_3}{\underset{\text{H}}{\text{N}^+}}-\text{CH}_2\text{CH}_3 \quad \text{Cl}^-$ <p> A Ethylmethylpropylammonium chloride B <i>N</i>-Ethyl-<i>N</i>-methyl-1-propanammonium chloride C <i>N</i>-Ethyl-<i>N</i>-methyl-<i>N</i>-propylammonium chloride D <i>N</i>-Methyl-<i>N</i>-propylethanammonium chloride </p>
32	<p>Which amine has the highest boiling point?</p> <p> A $\text{CH}_3(\text{CH}_2)_5\text{CH}_2\text{NH}_2$ B $\text{HN}(\text{CH}_2\text{CH}_3)_2$ C $\text{CH}_3(\text{CH}_2)_5\text{NHCH}_2\text{CH}_3$ D $(\text{CH}_2\text{CH}_3)_3\text{N}$ </p>
33	<p>What products are formed when (Dimethyl amine) reacts with HCl?</p> <p> A $(\text{CH}_3)_2\text{NH}^+\text{Cl}^-$ B $(\text{CH}_3)_2\text{NH}_2$ C $(\text{CH}_3)_2\text{NH}_2^+\text{Cl}^-$ D $(\text{CH}_3)_3\text{N}^+\text{Cl}^-$ </p>
34	<p>What is the name of the compounds with the general formula of $\text{R}_4\text{N}^+ \text{X}^-$?</p> <p> A Tertiary ammonium salts B Quaternary ammonium salts C Tetraammonium salts D Tertiary ammonia salts </p>
35	<p>Which of these functional groups is not present in atorvastatin?</p>  <p> A Carboxylic acid B Benzene C Ketone D Amine </p>
36	<p>What are the products in the acid-base reaction shown below?</p> $\text{CH}_3\text{CH}_2\text{N}(\text{CH}_3)_2 + \text{HBr} \longrightarrow$ <p> A $\text{CH}_3\text{CH}_2\text{N}^+(\text{CH}_3)_2 \text{Br}^-$ B $\text{CH}_3\text{CH}_2\text{N}(\text{CH}_3)_2 + \text{H}_2$ C $\text{CH}_3\text{CH}_2\text{N}(\text{CH}_3)_2 + \text{H}^+$ D $\text{CH}_3\text{CH}_2\text{N}(\text{CH}_3)_2\text{HBr}$ </p>
37	<p>Identify the organic compound which is more soluble in water:</p> <p> A $\text{CH}_3(\text{CH}_2)_4\text{COOH}$ B $\text{CH}_3(\text{CH}_2)_5\text{COOH}$ C $\text{CH}_3(\text{CH}_2)_6\text{COONa}$ D $\text{CH}_3(\text{CH}_2)_6\text{COOH}$ </p>
38	<p>Select the organic compound which has the higher boiling point.</p> <p> A $\text{CH}_3\text{CH}_2\text{COOH}$ B $\text{CH}_3(\text{CH}_2)_2\text{OCH}_3$ C $\text{CH}_3\text{COOCH}_3$ D $\text{CH}_3(\text{CH}_2)_3\text{OH}$ </p>
39	<p>Methyl formate is a/an:</p> <p> A Aldehydes B Carboxylic acid C Alcohol D Ester </p>
40	<p>Na_2CO_3 solution gives strong effervescences with:</p> <p> A Aldehydes B Carboxylic acid C Alcohol D Ester </p>

بنك الأسئلة في مقرر الكيمياء الطبية 2 (109-تحض)

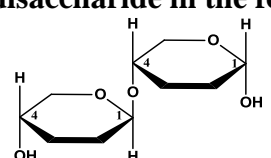
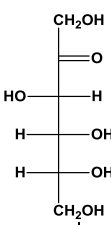
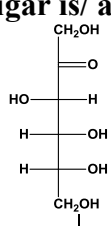
(Chem 109 Chapter 14)

Ques. no.	Questions						
1	What is the name of the bond formed between glucose and galactosemonosaccharides to produce the disaccharide lactose?						
A	α -1,2-glycosidic bond	B	β -1,4-glycosidic bond	C	α -1,4-glycosidic bond	D	β -1,2-glycosidic bond
2	Select the cyclic structures which represents α -D-fructose:						
A		B		C		D	
3	When D-glucose is treated with Benedict's reagent (a blue solution).....						
A	No reaction takes place	B	Brick red ppt is formed	C	Violet colour is formed	D	Odour of formaldehyde
4	Number of chirality center(s) in Ketotriose is/ are.....						
A	0	B	1	C	2	D	3
5	Which of the following monosaccharides represents L-Aldopentose?						
A		B		C		D	
6	The structure given below corresponds to a disaccharide in the form of :						
							
A	α -glycoside	B	β -glycoside	C	δ -glycoside	D	None of the above
7	The hydrolysis of monosaccharides gives....						
A	One unit of glucose and one unit of fructose	B	Two units of glucose	C	One unit of glucose and one unit of galactose	D	None of the above
8	The hydrolysis of maltose gives two units of glucose ($C_6H_{12}O_6$), molecular formula of maltose is.....						
A	$C_{12}H_{23}O_{12}$	B	$C_{12}H_{22}O_{11}$	C	$C_{12}H_{22}O_{10}$	D	$C_{12}H_{12}O_6$
9	When a D-aldotetrose is treated with H_2/Pd , final product will be....						
A		B		C		D	
10	D-glucose and D-fructose are monosaccharides that represent a pair of.....						
A	Constitutional isomers	B	Cis-trans isomers	C	Enantiomers	D	Identical molecules

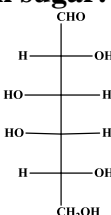
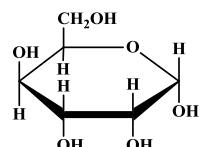
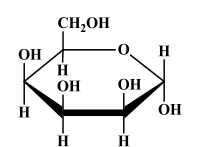
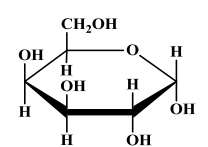
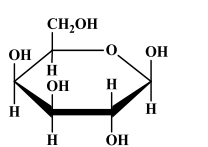
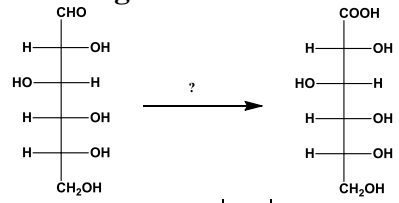
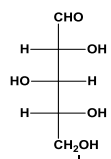
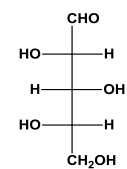
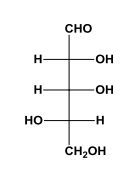
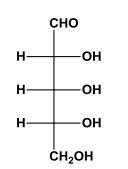
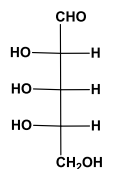
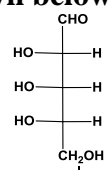
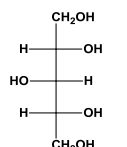
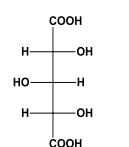
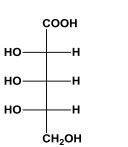
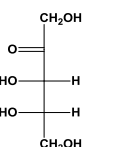
بنك الأسئلة في مقرر الكيمياء الطبية 2 (109-تحض)

Ques. no.	Questions						
11	Cellulose is an unbranched polymer composed of repeating of glucose units joined in a.....						
A	1→4-β-glycosidic linkage	B	1→4-α-glycosidic linkage	C	1→2-β-glycosidic linkage	D	1→2-α-glycosidic linkage
12	α-Isomer of cyclic form of the given sugar will be as.....						
$\begin{array}{ccccccc} & \text{H} & \text{OH} & \text{H} & \text{OH} & & \\ & & & & & & \\ \text{HOCH}_2 & -\text{C} & -\text{C} & -\text{C} & -\text{C} & -\text{CHO} & \\ & & & & & & \\ & \text{OH} & \text{H} & \text{OH} & \text{H} & & \end{array}$				A	B	C	D
13	Which of the following monosaccharides represents L-ketopentose?						
A	$\begin{array}{c} \text{CHO} \\ \\ \text{HO} - \text{C} - \text{H} \\ \\ \text{H} - \text{C} - \text{OH} \\ \\ \text{H} - \text{C} - \text{OH} \\ \\ \text{CH}_2\text{OH} \end{array}$	B	$\begin{array}{c} \text{CH}_2\text{OH} \\ \\ \text{C} = \text{O} \\ \\ \text{HO} - \text{C} - \text{H} \\ \\ \text{HO} - \text{C} - \text{H} \\ \\ \text{CH}_2\text{OH} \end{array}$	C	$\begin{array}{c} \text{CHO} \\ \\ \text{H} - \text{C} - \text{OH} \\ \\ \text{HO} - \text{C} - \text{H} \\ \\ \text{HO} - \text{C} - \text{H} \\ \\ \text{CH}_2\text{OH} \end{array}$	D	$\begin{array}{c} \text{CH}_2\text{OH} \\ \\ \text{C} = \text{O} \\ \\ \text{H} - \text{C} - \text{OH} \\ \\ \text{H} - \text{C} - \text{OH} \\ \\ \text{CH}_2\text{OH} \end{array}$
14	The following given sugar is classified as.....						
				A	B	C	D
15	The number of Chirality Center(s) of the structure below is/ are... :						
$\begin{array}{ccccccc} & \text{OH} & \text{H} & \text{OH} & \text{H} & & \\ & & & & & & \\ \text{HOCH}_2 & -\text{C} & -\text{C} & -\text{C} & -\text{C} & -\text{CHO} & \\ & & & & & & \\ & \text{H} & \text{OH} & \text{H} & \text{OH} & & \end{array}$				A	B	C	D
16	Select the correct structure of L-Glucose in given options.						
A	$\begin{array}{c} \text{CHO} \\ \\ \text{H} - \text{C} - \text{OH} \\ \\ \text{HO} - \text{C} - \text{H} \\ \\ \text{H} - \text{C} - \text{OH} \\ \\ \text{H} - \text{C} - \text{OH} \\ \\ \text{CH}_2\text{OH} \end{array}$	B	$\begin{array}{c} \text{CH}_2\text{OH} \\ \\ \text{C} = \text{O} \\ \\ \text{HO} - \text{C} - \text{H} \\ \\ \text{H} - \text{C} - \text{OH} \\ \\ \text{H} - \text{C} - \text{OH} \\ \\ \text{CH}_2\text{OH} \end{array}$	C	$\begin{array}{c} \text{CHO} \\ \\ \text{HO} - \text{C} - \text{H} \\ \\ \text{H} - \text{C} - \text{OH} \\ \\ \text{HO} - \text{C} - \text{H} \\ \\ \text{HO} - \text{C} - \text{H} \\ \\ \text{CH}_2\text{OH} \end{array}$	D	$\begin{array}{c} \text{CH}_2\text{OH} \\ \\ \text{O} = \text{C} \\ \\ \text{H} - \text{C} - \text{OH} \\ \\ \text{HO} - \text{C} - \text{H} \\ \\ \text{HO} - \text{C} - \text{H} \\ \\ \text{CH}_2\text{OH} \end{array}$
17	Identify the cyclic structures of β-D-fructose:						
A		B	C	D			

بنك الأسئلة في مقرر الكيمياء الطبية 2 (109-تحض)

Ques. no.	Questions						
18	What is the product formed when D-glucose is treated with $\text{Cu}^{+2} / \text{OH}^-$?						
A	$\begin{array}{c} \text{CHO} \\ \\ \text{H}-\text{OH} \\ \\ \text{HO}-\text{H} \\ \\ \text{H}-\text{OH} \\ \\ \text{H}-\text{OH} \\ \\ \text{CH}_2\text{OH} \end{array}$	B	$\begin{array}{c} \text{COOH} \\ \\ \text{H}-\text{OH} \\ \\ \text{HO}-\text{H} \\ \\ \text{H}-\text{OH} \\ \\ \text{H}-\text{OH} \\ \\ \text{CH}_2\text{OH} \end{array}$	C	$\begin{array}{c} \text{CHO} \\ \\ \text{HO}-\text{H} \\ \\ \text{H}-\text{OH} \\ \\ \text{HO}-\text{H} \\ \\ \text{HO}-\text{H} \\ \\ \text{CH}_2\text{OH} \end{array}$	D	$\begin{array}{c} \text{COOH} \\ \\ \text{HO}-\text{H} \\ \\ \text{H}-\text{OH} \\ \\ \text{HO}-\text{H} \\ \\ \text{HO}-\text{H} \\ \\ \text{CH}_2\text{OH} \end{array}$
19	Select the product formed when a D-aldopentose is treated with H_2 / Pd , is.....						
A	$\begin{array}{c} \text{CHO} \\ \\ \text{HO}-\text{H} \\ \\ \text{H}-\text{OH} \\ \\ \text{H}-\text{OH} \\ \\ \text{CH}_2\text{OH} \end{array}$	B	$\begin{array}{c} \text{COOH} \\ \\ \text{HO}-\text{H} \\ \\ \text{H}-\text{OH} \\ \\ \text{H}-\text{OH} \\ \\ \text{CH}_2\text{OH} \end{array}$	C	$\begin{array}{c} \text{CH}_2\text{OH} \\ \\ \text{HO}-\text{H} \\ \\ \text{H}-\text{OH} \\ \\ \text{H}-\text{OH} \\ \\ \text{CH}_2\text{OH} \end{array}$	D	$\begin{array}{c} \text{CH}_3 \\ \\ \text{HO}-\text{H} \\ \\ \text{H}-\text{OH} \\ \\ \text{H}-\text{OH} \\ \\ \text{CH}_2\text{OH} \end{array}$
20	The structure below corresponds to a disaccharide in the form of :						
							
A	α -glycoside	B	β -glycoside	C	δ -glycoside	D	None of the above
21	All carbohydrates contain one or more Chirality Centers except:						
A	Dihydroxy acetone	B	Glycerldehyde	C	Glucose	D	Fructose
22	Identify the monosaccharides which represents D-aldopentose.						
A	$\begin{array}{c} \text{CHO} \\ \\ \text{H}-\text{OH} \\ \\ \text{H}-\text{OH} \\ \\ \text{CH}_2\text{OH} \end{array}$	B	$\begin{array}{c} \text{CHO} \\ \\ \text{H}-\text{OH} \\ \\ \text{H}-\text{OH} \\ \\ \text{H}-\text{OH} \\ \\ \text{CH}_2\text{OH} \end{array}$	C	$\begin{array}{c} \text{CHO} \\ \\ \text{H}-\text{OH} \\ \\ \text{H}-\text{OH} \\ \\ \text{H}-\text{OH} \\ \\ \text{CH}_2\text{OH} \end{array}$	D	$\begin{array}{c} \text{CHO} \\ \\ \text{H}-\text{OH} \\ \\ \text{H}-\text{OH} \\ \\ \text{H}-\text{OH} \\ \\ \text{CH}_2\text{OH} \end{array}$
23	Classify the given monosaccharide as:						
							
A	Ketopentose	B	Aldopentose	C	Ketohexose	D	Aldohexose
24	Numbers of Chirality Centers of the given sugar is/ are.....						
							
A	One	B	Four	C	Three	D	Two

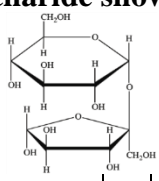
بنك الأسئلة في مقرر الكيمياء الطبية 2 (109-تحض)

Ques. no.	Questions
25	<p>Select the α-isomer of cyclic form of the given sugar:</p> <div style="text-align: center;">  </div> <div style="display: flex; justify-content: space-around; align-items: flex-start;"> <div style="text-align: center;"> <p>A</p>  </div> <div style="text-align: center;"> <p>B</p>  </div> <div style="text-align: center;"> <p>C</p>  </div> <div style="text-align: center;"> <p>D</p>  </div> </div>
26	<p>Select the correct reagents for the following reaction:</p> <div style="text-align: center;">  </div> <div style="display: flex; justify-content: space-around; align-items: center;"> <div style="text-align: center;"> <p>A $\text{Cu}^{+2}/\text{OH}^-$</p> </div> <div style="text-align: center;"> <p>B HNO_3</p> </div> <div style="text-align: center;"> <p>C H_2/Pd</p> </div> <div style="text-align: center;"> <p>D $\text{H}_2\text{O} / \text{H}^+$</p> </div> </div>
27	<p>Identify the <i>Enantiomer</i> of the given sugar:</p> <div style="text-align: center;">  </div> <div style="display: flex; justify-content: space-around; align-items: flex-start;"> <div style="text-align: center;"> <p>A</p>  </div> <div style="text-align: center;"> <p>B</p>  </div> <div style="text-align: center;"> <p>C</p>  </div> <div style="text-align: center;"> <p>D</p>  </div> </div>
28	<p>Identify the product when aldopentose (shown below) is treated with Benedict's reagent.....</p> <div style="text-align: center;">  </div> <div style="display: flex; justify-content: space-around; align-items: flex-start;"> <div style="text-align: center;"> <p>A</p>  </div> <div style="text-align: center;"> <p>B</p>  </div> <div style="text-align: center;"> <p>C</p>  </div> <div style="text-align: center;"> <p>D</p>  </div> </div>
29	<p>Select the correct glycosidic linkage in cellulose:</p> <div style="display: flex; justify-content: space-around; align-items: center;"> <div style="text-align: center;"> <p>A β-(1-4)</p> </div> <div style="text-align: center;"> <p>B α-(1-4)</p> </div> <div style="text-align: center;"> <p>C β-(1-2)</p> </div> <div style="text-align: center;"> <p>D α-(1-2)</p> </div> </div>
30	<p>D-glucose and L-glucose are monosaccharides that represent a pair of.....</p> <div style="display: flex; justify-content: space-around; align-items: center;"> <div style="text-align: center;"> <p>A Constitutional isomers</p> </div> <div style="text-align: center;"> <p>B Cis-trans isomers</p> </div> <div style="text-align: center;"> <p>C Enantiomers</p> </div> <div style="text-align: center;"> <p>D Identical molecules</p> </div> </div>

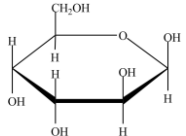
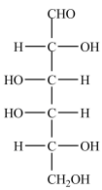
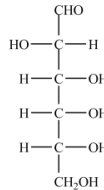
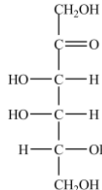
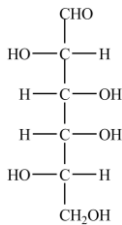
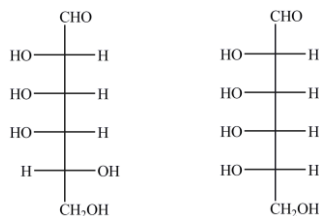
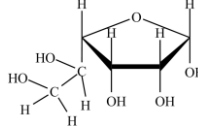
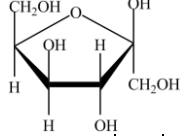
بنك الأسئلة في مقرر الكيمياء الطبية 2 (109-تحض)

Ques. no.	Questions			
31	Identify two compounds of the following that are enantiomers.....			
	$\begin{array}{c} \text{CHO} \\ \\ \text{H}-\text{C}-\text{OH} \\ \\ \text{H}-\text{C}-\text{OH} \\ \\ \text{H}-\text{C}-\text{OH} \\ \\ \text{CH}_2\text{OH} \\ \text{A} \end{array}$	$\begin{array}{c} \text{CH}_2\text{OH} \\ \\ \text{C}=\text{O} \\ \\ \text{HO}-\text{C}-\text{H} \\ \\ \text{HO}-\text{C}-\text{H} \\ \\ \text{CH}_2\text{OH} \\ \text{B} \end{array}$	$\begin{array}{c} \text{CHO} \\ \\ \text{HO}-\text{C}-\text{H} \\ \\ \text{HO}-\text{C}-\text{H} \\ \\ \text{H}-\text{C}-\text{OH} \\ \\ \text{CH}_2\text{OH} \\ \text{C} \end{array}$	$\begin{array}{c} \text{CHO} \\ \\ \text{HO}-\text{C}-\text{H} \\ \\ \text{HO}-\text{C}-\text{H} \\ \\ \text{HO}-\text{C}-\text{H} \\ \\ \text{CH}_2\text{OH} \\ \text{D} \end{array}$
	A A, B	B A, D	C B, C	D C, D
32	Select the pair of constitutional isomers in given structures....			
	$\begin{array}{c} \text{CH}_2\text{OH} \\ \\ \text{C}=\text{O} \\ \\ \text{H}-\text{C}-\text{OH} \\ \\ \text{H}-\text{C}-\text{OH} \\ \\ \text{CH}_3 \\ \text{A} \end{array}$	$\begin{array}{c} \text{CH}_2\text{OH} \\ \\ \text{C}=\text{O} \\ \\ \text{HO}-\text{C}-\text{H} \\ \\ \text{HO}-\text{C}-\text{H} \\ \\ \text{CH}_2\text{OH} \\ \text{B} \end{array}$	$\begin{array}{c} \text{CHO} \\ \\ \text{HO}-\text{C}-\text{H} \\ \\ \text{HO}-\text{C}-\text{H} \\ \\ \text{H}-\text{C}-\text{OH} \\ \\ \text{CH}_2\text{OH} \\ \text{C} \end{array}$	
	A A,B	B A,C	C B,C	D None of the above
33	Which carbohydrates cannot be converted to simpler compounds by hydrolysis?			
	A Disaccharides	B Monosaccharides	C Polysaccharides	D Starches
34	Monosaccharides with a carbonyl group at C1 are called?			
	A Anomers	B Aldoses	C Ketoses	D Alditols
35	Classify the compound shown below?			
		$\begin{array}{c} \text{CHO} \\ \\ \text{H}-\text{C}-\text{OH} \\ \\ \text{HO}-\text{C}-\text{H} \\ \\ \text{H}-\text{C}-\text{OH} \\ \\ \text{H}-\text{C}-\text{OH} \\ \\ \text{CH}_2\text{OH} \end{array}$		
	A Aldohexose	B Ketohexose	C Aldopentose	D Ketopentose
36	Classify the compound shown below?			
		$\begin{array}{c} \text{CH}_2\text{OH} \\ \\ \text{C}=\text{O} \\ \\ \text{H}-\text{C}-\text{OH} \\ \\ \text{CH}_2\text{OH} \end{array}$		
	A Tetraketose	B Ketotriose	C Ketotetose	D Aldotriose
37	Which monosaccharide is an aldotriose?			
	$\begin{array}{c} \text{CH}_2\text{OH} \\ \\ \text{C}=\text{O} \\ \\ \text{H}-\text{C}-\text{OH} \\ \\ \text{CH}_2\text{OH} \end{array}$	$\begin{array}{c} \text{CHO} \\ \\ \text{HO}-\text{C}-\text{OH} \\ \\ \text{CH}_2\text{OH} \end{array}$	$\begin{array}{c} \text{CHO} \\ \\ \text{H}-\text{C}-\text{OH} \\ \\ \text{CH}_2\text{OH} \end{array}$	$\begin{array}{c} \text{CHO} \\ \\ \text{C}=\text{O} \\ \\ \text{CH}_2\text{OH} \end{array}$
	A	B	C	D

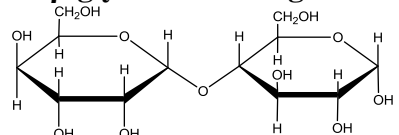
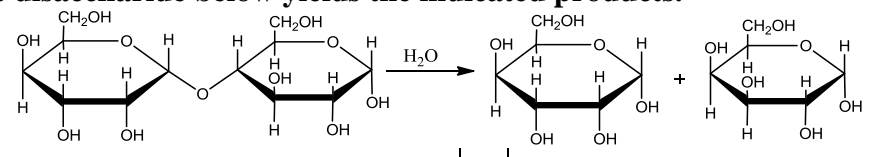
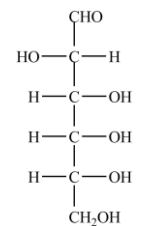
بنك الأسئلة في مقرر الكيمياء الطبية 2 (109-تحض)

Ques. no.	Questions						
44	Which product is formed when the compound below is treated with Benedict's reagent?						
	$\begin{array}{c} \text{CHO} \\ \\ \text{H}-\text{C}-\text{OH} \\ \\ \text{CH}_2\text{OH} \end{array}$						
A	$\begin{array}{c} \text{CH}_2\text{OH} \\ \\ \text{H}-\text{C}-\text{OH} \\ \\ \text{CH}_2\text{OH} \end{array}$	B	$\begin{array}{c} \text{CHO} \\ \\ \text{C}=\text{O} \\ \\ \text{CH}_2\text{OH} \end{array}$	C	$\begin{array}{c} \text{COOH} \\ \\ \text{H}-\text{C}-\text{OH} \\ \\ \text{CH}_2\text{OH} \end{array}$	D	$\begin{array}{c} \text{CH}_2\text{OH} \\ \\ \text{HO}-\text{C}-\text{OH} \\ \\ \text{CH}_2\text{OH} \end{array}$
45	Which product is formed when the compound below is treated with Benedict's reagent?						
	$\begin{array}{c} \text{CH}_2\text{OH} \\ \\ \text{C}=\text{O} \\ \\ \text{HO}-\text{C}-\text{H} \\ \\ \text{HO}-\text{C}-\text{H} \\ \\ \text{CH}_2\text{OH} \end{array}$						
A	$\begin{array}{c} \text{COOH} \\ \\ \text{H}-\text{C}-\text{OH} \\ \\ \text{HO}-\text{C}-\text{H} \\ \\ \text{HO}-\text{C}-\text{H} \\ \\ \text{CH}_2\text{OH} \end{array}$	B	$\begin{array}{c} \text{CH}_2\text{OH} \\ \\ \text{H}-\text{C}-\text{OH} \\ \\ \text{HO}-\text{C}-\text{H} \\ \\ \text{HO}-\text{C}-\text{H} \\ \\ \text{CH}_2\text{OH} \end{array}$	C	$\begin{array}{c} \text{CH}_2\text{OH} \\ \\ \text{HO}-\text{C}-\text{H} \\ \\ \text{HO}-\text{C}-\text{H} \\ \\ \text{HO}-\text{C}-\text{H} \\ \\ \text{CH}_2\text{OH} \end{array}$	D	$\begin{array}{c} \text{CHO} \\ \\ \text{H}-\text{C}-\text{OH} \\ \\ \text{HO}-\text{C}-\text{H} \\ \\ \text{HO}-\text{C}-\text{H} \\ \\ \text{CH}_2\text{OH} \end{array}$
46	Which of the following joins together the monosaccharide units that form Disaccharides and polysaccharides?						
A	Hydrogen bonding	B	Glycosidic linkages	C	Hemiacetal bonds	D	Dipole-dipole forces
47	How many acetals are present in the disaccharide shown below?						
							
A	1	B	2	C	3	D	4
48	What is the structure of cellulose?						
A	Unbranched skeleton of glucose molecules joined by 1→4-β glycoside linkages	B	Branched skeleton of glucose molecules joined by 1→4-β glycoside linkages	C	Unbranched skeleton of glucose molecules joined by 1→4-α glycoside linkages	D	Branched skeleton of glucose molecules joined by 1→4-α glycoside linkages
49	Which structure is a three-carbon alditol?						
A	$\begin{array}{c} \text{CH}_2\text{OH} \\ \\ \text{H}-\text{C}-\text{OH} \\ \\ \text{CH}_2\text{OH} \end{array}$	B	$\begin{array}{c} \text{CHO} \\ \\ \text{C}=\text{O} \\ \\ \text{CH}_2\text{OH} \end{array}$	C	$\begin{array}{c} \text{COOH} \\ \\ \text{H}-\text{C}-\text{OH} \\ \\ \text{CH}_2\text{OH} \end{array}$	D	$\begin{array}{c} \text{CH}_2\text{OH} \\ \\ \text{HO}-\text{C}-\text{OH} \\ \\ \text{CH}_2\text{OH} \end{array}$

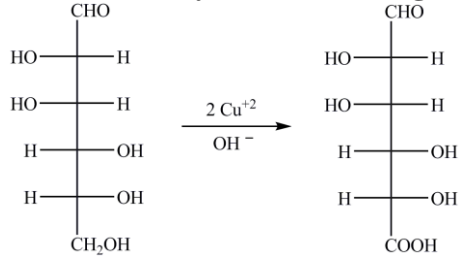
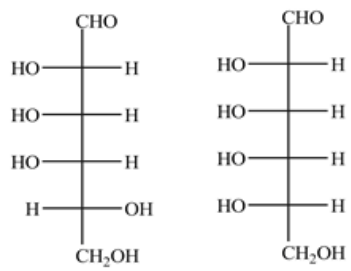
بنك الأسئلة في مقرر الكيمياء الطبية 2 (109-تحض)

Ques. no.	Questions				
50	Which naturally-occurring monosaccharide forms the Haworth structure shown below?				
					
A		B		C	
		D			
					
51	The Fischer projections of two monosaccharides are shown below. Which term best describes the relationship between the two?				
					
A	Enantiomers	B	Anomers	C	
			Constitutional isomers	D	
	Diastereomers				
52	When a monosaccharide forms a cyclic hemiacetal, the carbon atom that is part of the hemiacetal is a new chirality center, called the anomeric carbon.				
A	True		B	False	
53	The α anomer of a cyclic monosaccharide has the $-OH$ group drawn down, below the ring.				
A	True		B	False	
54	The monosaccharide shown below is an α anomer.				
					
A	True		B	False	
55	At equilibrium, a solution of glucose in water is an equal mixture of the α anomer, the β anomer, and the acyclic aldehyde.				
A	True		B	False	
56	Certain monosaccharides—notably aldopentoses and ketohexoses—form five-membered rings, not six-membered rings, in solution.				
A	True		B	False	
57	The monosaccharide shown below is an β anomer.				
					
A	True		B	False	

بنك الأسئلة في مقرر الكيمياء الطبية 2 (109-تحض)

Ques. no.	Questions
58	The carbonyl group of an aldose is reduced to a secondary alcohol using hydrogen (H_2), in presence of palladium (Pd) metal. <div style="display: flex; justify-content: space-between;"> A True B False </div>
59	An alditol contains an $-OH$ group on every carbon atom. <div style="display: flex; justify-content: space-between;"> A True B False </div>
60	Carbohydrates that are oxidized with Benedict's reagent are called reducing sugars, because they reduce the Cu^{2+} in Benedict's reagent to Cu^+ during the reaction. <div style="display: flex; justify-content: space-between;"> A True B False </div>
61	All aldoses and ketoses are reducing sugars. <div style="display: flex; justify-content: space-between;"> A True B False </div>
62	All disaccharides contain at least one acetal that joins the rings together. <div style="display: flex; justify-content: space-between;"> A True B False </div>
63	The disaccharide shown below has an α -glycosidic linkage.  <div style="display: flex; justify-content: space-between;"> A True B False </div>
64	Hydrolysis of the disaccharide below yields the indicated products.  <div style="display: flex; justify-content: space-between;"> A True B False </div>
65	Cellulose is a highly branched polymer composed of repeating glucose units joined in a $1 \rightarrow 4$ - α glycosidic linkage. <div style="display: flex; justify-content: space-between;"> A True B False </div>
66	In aldohexoses, it is the $-OH$ group on C5 that reacts with the aldehyde carbonyl to form two cyclic hemiacetals, called anomers. <div style="display: flex; justify-content: space-between;"> A True B False </div>
67	α -D-galactose and β -D-galactose are enantiomers. <div style="display: flex; justify-content: space-between;"> A True B False </div>
68	The structure shown has four (4) chirality centers and is a D monosaccharide.  <div style="display: flex; justify-content: space-between;"> A True B False </div>

بنك الأسئلة في مقرر الكيمياء الطبية 2 (109-تحض)

Ques. no.	Questions
69	<p>Glucose and other naturally occurring sugars are D sugars.</p> <p>A True B False</p>
70	<p>When the monosaccharide below is oxidized by Benedict's reagent, the indicated product results.</p> <div style="text-align: center;">  </div> <p>A True B False</p>
71	<p>Carbohydrates are structurally defined as polyhydroxyaldehydes OR polyhydroxyketones, or compounds that can be hydrolyzed to any of them.</p> <p>A True B False</p>
72	<p>Disaccharides contain two carbonyl groups.</p> <p>A True B False</p>
73	<p>Monosaccharides with a carbonyl group at C2 are called ketoses.</p> <p>A True B False</p>
74	<p>All carbohydrates, except for dihydroxyacetone, contain one or more chirality centers.</p> <p>A True B False</p>
75	<p>The two monosaccharides shown below are related as enantiomers.</p> <div style="text-align: center;">  </div> <p>A True B False</p>

بنك الأسئلة في مقر الكيمياء الطبية 2 (109-تحض)

(Chem 109 Chapter 16)

Ques. no.	Question
1	Which is the simplest amino acid? A Serine B Glutamine C Cysteine D Glycine
2	What is the three-letter abbreviation of asparagine? A Asp B Asg C Asn D Arg
3	What is the charge on a zwitterion? A Positive B Neutral C Negative D None of this
4	What is the charge on an amino acid at a pH below its pI? A Positive B Neutral C Negative D None of this
5	How many different dipeptides can be formed when one valine reacts with one glycine? A 1 B 2 C 3 D 4
6	How many different tripeptides can be formed when one isoleucine, one alanine, and one glycine react? A 3 B 6 C 18 D 27
7	What is the C-terminal amino acid in the tetrapeptide glycylalanysoleuylmethionine? A Alanine B Glycine C Methionine D Isoleucine
8	What is the N-terminal amino acid in the tetrapeptide glycylalanysoleuylmethionine? A Alanine B Glycine C Methionine D Isoleucine
9	How many chirality centers are in leu-enkephalin (structure shown)? <div style="text-align: center;"> </div> A 3 B 4 C 5 D 6
10	All amino acids have at least one chirality center. A True B False C D

بنك الأسئلة في مقرر الكيمياء الطبية 2 (109-تحض)

Ques. no.	Question
11	Humans can synthesize only twenty of the amino acids needed for proteins. A True B False C D
12	D-Amino acids have the $-\text{NH}_3^+$ group on the left side in the Fischer projection. A True B False C D
13	The Fischer projection below represents a naturally occurring amino acid. <div style="text-align: center;"> $\begin{array}{c} \text{COO}^- \\ \\ \text{H} - \text{C} - \text{NH}_3^+ \\ \\ \text{CH}_2\text{COO}^- \end{array}$ </div> A True B False C D
14	A dipeptide contains two amino acids joined together by two amide bonds. A True B False C D
15	The amide bonds in peptides and proteins are called peptide bonds. A True B False C D
16	By convention, the C-terminal amino acid is always written at the right end of the peptide chain and the N-terminal amino acid at the left. A True B False C D
17	Acidic amino acids have lower pI values than basic amino acids. A True B False C D
18	Glycine exists primarily in its neutral form at a pH ~ 6. A True B False C D
19	The peptide leucylphenylalanylvalylvaline is abbreviated as Leu-Phen-Ala-Val-Val. A True B False C D
20	Amino acids with an additional COOH group in the side chain are classified as acidic amino acids. A True B False C D

بنك الأسئلة في مقرر الكيمياء الطبية 2 (109-تحض)

Ques. no.	Question
21	<p>Fill in the blank. 'Proteins are.....</p> <p>A Amino acids connected through hydrogen bonds linkage B Polypeptide chains connected through amide linkages C Polypeptide chains connected through glycosidic linkages D None of the above</p>
22	<p>After addition of an acid in zwitter ion of an amino acid (X) has net positive charge is 1, the pH of amino acid will be.....</p> <p>A pH=6 B pH≤2 C pH≥2 D pH=10</p>
23	<p>Classification of the given amino acid is.....</p> $\begin{array}{c} \text{H} \\ \\ \text{OOC} - \text{CH}_2 - \text{C} - \text{COO}^- \\ \\ \text{NH}_3^+ \end{array}$ <p>A Neutral B Basic C Acidic D Zwitterion</p>
24	<p>Classification of the given amino acid is.....</p> $\begin{array}{c} \text{H} \\ \\ \text{H}_3\text{N}^+ - \text{C} - \text{COO}^- \\ \\ \text{CH}_2\text{CH}_2\text{CONH}_2 \end{array}$ <p>A Neutral B Basic C Acidic D Zwitterion</p>
25	<p>The net charge of the zwitterion of an amino acid is :</p> <p>A -1 B -2 C zero D +1</p>
26	<p>The pH at which the amino acid exists primarily in its neutral form is called as...</p> <p>A Hydrogen bond B Melting point C Isoelectric point D Boiling point</p>
27	<p>Two amino acids joined together by one peptide bond are called as.....</p> <p>A Tripeptide B Dipeptide C Polypeptide D Tetrapeptide</p>
28	<p>Neutral amino acid at pH =11 shows predominated form which will be as.....</p> <p>A Zwitterion B Anionic form (-1) C Cationic form(+1) D all of them</p>
29	<p>Select the amino acid which does not have <i>Chirality Center</i>.</p> <p>A Alanine B Glycine C Histidine D Aspartic acid</p>
30	<p>One peptide structure is given below; classification of this peptide is.....</p> $\begin{array}{c} \text{H}_3\text{N}^+ - \text{CH} - \text{C}(=\text{O}) - \text{N} - \text{CH} - \text{C}(=\text{O}) - \text{N} - \text{CH} - \text{C}(=\text{O}) - \text{O}^- \\ \quad \quad \quad \quad \quad \quad \quad \quad \quad \\ \text{CH}_2 \quad \quad \quad \text{H} \quad \text{CH}_3 \quad \quad \quad \text{H} \quad \quad \quad \text{CH}_2 - \text{C}_6\text{H}_4 - \text{OH} \\ \\ \text{CH}(\text{CH}_3)_2 \end{array}$ <p>A Dipeptide B Tetrapeptide C Monopeptide D Tripeptide</p>

بنك الأسئلة في مقرر الكيمياء الطبية 2 (109-تحض)