

BANK OF QUSTIONS



بنك الأسئلة

القمة في

DOC MOHAMED ELSAYEL

FIRST MID TEARN

CHAPTER O

MATTER AND MEASUREMENTS

لحجز الميد الأولان المراجعة 0546535899 خصم خاص لقروب القمة يمكنك إلاشترالك بالكورس

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يشمل الكورس (شرح السلايدات _ حل بنك الأسئلة _ حل الاختبارات السابقة مراجعة ليلة الاختبار)

Chapter 1: Introduction: Matter and Measurement

Multiple Choice and Bimodal

A) definite, compressible B) definite, incompressible C) indefinite, compressible D) indefinite, incompressible E) sharp, convertible Answer: A	_shape and are not appreciably_	
2) Gases and liquid sharesA) Definite volumeB) Indefinite shapeC) IncompressibilityD) CompressibilityAnswer: B	the property of	
3) The process of changingA) EvaporationB) CondensationC) SublimationD) Deposition	gas to liquid is called	(05/26)
		to other substances by physical processes, rocesses, it is called a (an)
5) Which of following is not A) g/cm B) Kg m\S2 C) m\s D) m3 answer A 6) The SI unit for mass is A) kilogram B) gram C) pound D) troy ounce E) none of the above Answer: A	t SI derived unit?	
7) A one degree of temper A) Kelvin B) Celsius C) Fahrenheit D) Kelvin and Celsius E) Fahrenheit and Celsius Answer: C	rature difference is the smallest o	on thetemperature scale.

8) A common English set of units for expressing velocity is miles/hour. The SI unit for velocity is? A) km/hr B) km/s C) m/hr D) m/s E) cm/s Answer: D
9) the unit of force in the English measurement system is $\frac{1b \cdot ft}{s^2}$. The SI unit of force is the Newton, which is
A) <u>g • cm</u>
s ² B) kg • m
$\frac{dS}{dr^2}$
C) kg·m
s ² D) g•m
D) $\frac{g \cdot m}{s^2}$
E) $\frac{g \cdot cm}{s}$
Answer: C
10) Momentum is defined as the product of mass and velocity. The SI unit for momentum is? A) kg • m
- s -
B) kg • m hr C) g • m S
D) $\frac{g \cdot km}{s}$
E) kg • km hr Answer: A
11) The SI unit of temperature is A) K
B) °C C) °F
D) t E) T
Answer: A
12) The temperature of 25°C isin Kelvins.
A) 103 B) 138
C) 166 D) 248
E) 298
Answer: E

12) The fuering point of weter at 1 atm pressure is
13) The freezing point of water at 1 atm pressure is
A) 0°F
B) 0 K
C) 0°C
D) -273°C
E) -32°F
Answer: C
14) A temperature of 400 K is the same as°F.
A) 261
B) 286
C) 88
D) 103
E) 127
Answer: A
15) A temperature of K is the same as 63°F.
A) 17
B) 276
C) 290
D) 29
E) 336
Answer: C
16) 1 nanometer =picometers
A) 1000
B) 0.1
C) 0.01
D) 1
E) 10
Answer: A
17) 1 picometer =centimeters
A) 1 1010
A) 1×10^{10}
15) A temperature of K is the same as 63°F. A) 17 B) 276 C) 290 D) 29 E) 336 Answer: C 16) 1 nanometer = picometers A) 1000 B) 0.1 C) 0.01 D) 1 E) 10 Answer: A 17) 1 picometer = centimeters A) 1 × 10 ¹⁰ B) 1 × 10 ⁻¹⁰
A) 1 × 10 ¹⁰ B) 1 × 10 ⁻¹⁰ C) 1 × 10 ⁸
2)17.10
C) 1×10^8 D) 1×10^{-8}
C) 1×10^8
C) 1 × 10 ⁸ D) 1 × 10 ⁻⁸ E) 1 × 10 ⁻¹² Answer: B
C) 1×10^{8} D) 1×10^{-8} E) 1×10^{-12} Answer: B 18) 1 kilogram =milligrams
C) 1×10^{8} D) 1×10^{-8} E) 1×10^{-12} Answer: B 18) 1 kilogram =milligrams A) 1×10^{-6}
C) 1×10^{8} D) 1×10^{-8} E) 1×10^{-12} Answer: B 18) $1 \text{ kilogram} = \text{milligrams}$ A) 1×10^{-6} B) $1,000$
C) 1×10^{8} D) 1×10^{-8} E) 1×10^{-12} Answer: B 18) $1 \text{ kilogram} = \text{milligrams}$ A) 1×10^{-6} B) $1,000$ C) $10,000$
C) 1×10^{8} D) 1×10^{-8} E) 1×10^{-12} Answer: B 18) $1 \text{ kilogram} = \text{milligrams}$ A) 1×10^{-6} B) $1,000$ C) $10,000$ D) $1,000,000$
C) 1×10^{8} D) 1×10^{-8} E) 1×10^{-12} Answer: B 18) $1 \text{ kilogram} = \text{milligrams}$ A) 1×10^{-6} B) $1,000$ C) $10,000$

19) "Absolute zero" refers to A) 0 Kelvin B) 0° Fahrenheit C) 0° Celsius D) °C + 9/5(°F - 32) E) 273.15°C Answer: A 20) The density (in g/cm³) of a gold nugget that has a volume of 1.68 cm³ and a mass of 32.4 g is
A) 0.0519
B) 19.3 C) 54.4
D) 0.0184
E) 32.4
Answer: B
21) The density of silver is 10.5 g/cm ³ . A piece of silver with a mass of 61.3 g would
occupy a volume ofcm ³ .
A) 0.171
B) 644 C) 10.5
D) 0.00155
E) 5.84
Answer: E
22) The desire of the size of
22) The density of silver is 10.5 g/cm ³ . A piece of silver that occupies a volume of 23.6 cm ³ would have a mass ofg.
A) 248
B) 0.445
C) 2.25
D) 112 E) 23.6
Answer: A
D) 112 E) 23.6 Answer: A

23) A certain liquid has a density of 2.67 g/cm ³ .1340 g of this liquid would occupy a volume ofL.
A) 1.99 × 10 ⁻³ B) 50.2 C) 3.58 D) 35.8
E) 0.502 Answer: E
24) A certain liquid has a density of 2.67 g/cm ³ . 30.5 mL of this liquid would have a mass ofKg.
A) 81.4
B) 11.4
C) 0.0875 D) 0.0814
E) 0.0114
Answer: D
25) Osmium has a density of 22.6 g/cm ³ . The mass of a block of osmium that measures
1.01 cm \times 0.233 cm \times 0.648 cm isg.
A) 6.75×10^{-3}
B) 3.45
C) 148 D) 6.75×10^3
E) 34.5
Answer: B
30) $3.337 \text{ g/cm}^3 = \text{kg/m}^3$ A) 3.337×10^{-9}
A) 3.337×10^{-9}
B) 3.337×10^{-5}
C) 3337
D) 0.3337 E) 333.7
Answer: C
31) Homogeneous mixtures are also known as
A) solids
B) compounds C) elements
D) substances
E) solutions
Answer: E

31) One side of a A) 2.40 × 10 ⁴ B) 3.72 × 10 ⁶ C) 2.40 D) 3.72 E) 155 Answer: B	a cube measures 1.55 m	. The volume of this cube is	cm ³ .
32) 45 m/s =	_km/hr	asay early	
	3haned		

B) 255 C) 193
D) 4.24
E) 1.53×10^4
Answer: D
40) The density of mercury is 13.6 g/cm ³ . The density of mercury iskg/m ³ .
A) 1.36×10^{-2}
B) 1.36×10^4
C) 1.36×10^8
D) 1.36×10^{-5}
E) 1.36×10^{-4}
Answer: B
A) 1.36 × 10 ² B) 1.36 × 10 ⁴ C) 1.36 × 10 ⁸ D) 1.36 × 10 ⁻⁵ E) 1.36 × 10 ⁻⁴ Answer: B 41) There are ng in a pg. A) 0.001 B) 1000 C) 0.01 D) 100 E) 10 Answer: A
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33) If an object, beginning at rest, is moving at a speed of 700 m/s after 2.75 min, its rate of acceleration (in

m/s²) is_____. (Assume that the rate of acceleration is constant.)

A) 1.6×10^5

42) The density of lead is 11.4 g/cm^3 . The mass of a lead ball with a radius of 0.50
mm isg. (Vsphere = $4\pi r^3/3$)
A) 6.0
B) 4.6×10^{-2}
C) 4.6×10^{-5}
D) 6.0×10^{-3}
E) 4.6
Answer: D
Multiple-Choice
43) In the following list, only is <u>not</u> an example of matter.
A) planets
B) light
C) dust
D) elemental phosphorus
E) table salt
Answer: B
44) What is the physical state in which matter has no specific shape but does have a specific volume?
A) gas
B) solid
C) liquid
D) salts
E) ice
Answer: C
45) A combination of sand, salt, and water is an example of a
A) homogeneous mixture
B) heterogeneous mixture
C) compound
D) pure substance
E) solid
Answer: B
48) Which one of the following is a pure substance?
A) concrete
B) wood
C) salt water
D) elemental copper
E) milk
Answer: D
46) Which one of the following is often easily separated into its components by simple techniques such as
filtering or decanting?
A) heterogeneous mixture
B) compounds
C) homogeneous mixture
D) elements
E) solutions
Answer: A

A) gases only B) liquids only C) solids and gases E) solids and liquids Answer: A
48) If matter is uniform throughout and cannot be separated into other substances by physical
means, it is
A) a compound B) either an element or a compound
C) a homogeneous mixture
D) a heterogeneous mixture
E) an element
Answer: B
49) An element cannot .
A) be part of a heterogeneous mixture
B) be part of a homogeneous mixture
C) be separated into other substances by chemical means
D) interact with other elements to form compounds
E) be a pure substance
Answer: C
50) Homogeneous mixtures are also known as
A) solids
B) compounds
C) elements D) substances
E) solutions
Answer: E
This well 2
51) In the following list, only <u>is not</u> an example of a chemical reaction.
A) dissolution of a penny in nitric acid
B) the condensation of water vapor
C) a burning candle
D) the formation of polyethylene from ethylene
E) the rusting of iron Answer: B
Alliswell, D
52) Of the following, only is a chemical reaction.
A) melting of lead
B) dissolving sugar in water
C) tarnishing of silver
D) crushing of stone
E) dropping a penny into a glass of water
Answer: C
52) William of the fellowing in the control of the
53) Which one of the following is <u>not</u> an intensive property?
A) density B) temperature
C) melting point
D) mass
E) boiling point
Answer: D

54) Which one of the following is an intensive property?

- A) mass
- B) temperature
- C) heat content
- D) volume
- E) amount

Answer: B



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55) Of the following, only _____ is an extensive property. A) density B) mass C) boiling point D) freezing point E) temperature Answer: B 56) Which of the following are chemical processes? 1. rusting of a nail 2. freezing of water 36546535895 3. decomposition of water into hydrogen and oxygen gases 4. compression of oxygen gas A) 2, 3, 4B) 1, 3, 4 C) 1, 3 D) 1, 2 E) 1, 4 Answer: C 57) Dissolving sugar in water can be described as_ A) Chemical changes and heterogeneous mixture B) Chemical changes and homogenous mixture C) Physical changes and heterogeneous mixture D) Physical changes and homogenous mixture Answer D 58) Which of the following statements is (are) A- Compounds can be separated by physical methods into pure elements. cannot easily B- Homogeneous mixtures separated by chemical or physical methods C- Heterogeneous mixtures can easily be separated by physical methods. D- Elements can be separated into small particles by physical methods. Answer C 60) Which of the following is a chemical change? A)Oxidation of iron in air. B) Mixing water and oil. C) Melting ice. D) Dissolving sugar in water. Answer A 61) Which is NOT an extensive property of matter? A) Density B) Volume C) Length D) Mass

Answer A

القمة في Chem (101)

62)Identify the INCORRECT statement:

- (A) Helium is an element
- (B) Paint is a mixture
- (C)Milk is a compound
- (D) Mercury is an element

Answer C

63)Non-SI unit from the following, is:

- (A) kilogram (kg)
- (C) inch (in)
- (B) second (s)
- (D) meter (m)

Answer C

SI units and prefixes



Base Quantity	Name of Unit	Symbol
Length	meter	m
Mass	kilogram	kg
Time	second	S
Electrical current	ampere	A
Temperature	kelvin	K
Amount of substance	mole	mol
Luminous intensity	candela	cd

TABLE	1.3 Prefi	ixes Used with SI Units	
Prefix	Symbol	Meaning	Example
tera-	T	1,000,000,000,000, or 10 ¹²	1 terameter (Tm) = 1×10^{12} m
giga-	G	1,000,000,000, or 10 ⁹	1 gigameter (Gm) = 1×10^9 m
mega-	M	1,000,000, or 10 ⁶	1 megameter (Mm) = 1×10^6 m
kilo-	k	$1,000, \text{ or } 10^3$	1 kilometer (km) = 1×10^3 m
deci-	d	$1/10$, or 10^{-1}	1 decimeter (dm) = 0.1 m
centi-	c	$1/100$, or 10^{-2}	1 centimeter (cm) = 0.01 m
milli-	m	$1/1,000$, or 10^{-3}	1 millimeter (mm) = 0.001 m
micro-	μ	$1/1,000,000, \text{ or } 10^{-6}$	1 micrometer (μ m) = 1 × 10 ⁻⁶ m
nano-	n	1/1,000,000,000, or 10 ⁻⁹	1 nanometer (nm) = 1×10^{-9} m
pico-	p	$1/1,000,000,000,000$, or 10^{-12}	1 picometer (pm) = 1×10^{-12} m

Derived quantity	Definition	S.I. unit in terms of base units	Alternative name for S.I. unit
Area	length × length	m ²	-
Volume	(length) ³	m ³	-
Density	mass/volume	kg m ⁻³	-
Speed, velocity	length/time	m s ⁻¹	-
Acceleration	velocity/time	m s ⁻²	-
Momentum	mass × velocity	kg m s ⁻¹	-
Force	momentum/time	kg m s ⁻²	newton, N
Pressure	force/area	kg m ⁻¹ s ⁻²	pascal, Pa, N m ⁻²
Work, energy	force × distance	kg m ² s ⁻²	joule, J
Power	work/time	kg m ² s ⁻³	watt, W

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