24/2/1434 - 6/1/2013 (A) King Abdulaziz University Time allowed: 2 Hrs. Faculty of Science Place: Bld 29 Department of Biological Sciences Male Section Final Exam of General Biology (Bio 110) Semester 1433 \ 1434 This quiz contains 40 multiple choice questions. Each question has one only one asexual & binary fission -> For Prokaryotes like budding bacteria (Dividing fragmentation into half) Hike Bacteria 1. Prokaryotes reproduce by a type of cell division called binary fission which a) Split via budding. b Dividing in half. c) Fragment of the cell. d) Two gonads in one organism. e) None of the above. 2. The somatic cells in human male have chromosomes of the type a) 22+ X. → sperm or egg b) 22 + Y. → Sperm cen d) 44 + XX. (e)44 + XY3. The process by which the sperms are produced is known as a) Ovulation. Spermatogenesis. d) Gestation. e) Emberyogenesis. G eggs الرسب الصوم (الطورالين) 4. What is the correct order for the 3 stages of interphase of cell cycle? ADNA SYNTHESIS **a** a) S, G1, G2 b) S, G2, G1 \* e) there is no certain order 1 CYtoplasmic یصبط لاسن الحجادی ہے القنعم العدای rib cage expands, diaphragm moves down pressure and lung decreases, air is drawn into the respiratory tract.

a) Exhalation (عنون على المناق على e) active diffusion 6. Nucleosomes are formed when DNA is wrapped around

a) histone.
b) chromatin
c) protosome e) None of the above فن النفاف المعالم الموتانية المعالم ال d) nucleosome Jene expression (Prevent) via DNA Packing is constructed of transcription of the Transcription into mRNA -> then translation into protein

8. Homeostasis is the:	
العقريف (a) ability to regulate internal environment. العقريف (عام وعلي)	
b) maintenance of steady internal conditions despite fluctuations in the external	**
environment. خيات سيان عرف طوف طوف طوف علوف علوف علوف علوف على المعالمة ال	
c) maintenance of internal temperature within parrow limits	
d) control of the gain and loss of water and solutes> asmoregulation of the above.	~
e) all of the above.	
cupuses excretion > Disposal of Nitrogenous western menstasis viver.	0
9. Most of carbon dioxide in the blood is transported as bicarbonate ions in the	
a) Plasma b) Red blood cells c) White blood cells d) Platelets	
e) Macrophages 402 6 Defense 6 Clottic	
	7
ants and bees).	
a) X-1 system. (c) Number of chromosomes	
Sufferfly	)
in The II. Atherosclerosis is due to Fish Female (X)	( ۱
a) plaques narrowed blood vessels (قير فين ف) b) blood flow is reduced	
-c) plaques develop inside walls of blood vessels d) blood flow is doubled	أتبضا
(E) a+b+c are correct choices	
للم المرافق فياد رفون المرابي	الان
m red blood cells.	,,
b) white blood cells chemoglobin d) platelets e) all of the above choices are correct.	
عنج الأرزين 13. In mammals, air enters through the nostrils to the where it is	
filtered by hairs and mucus, warmed or moisturized and sampled for odor.	
a) pharynx b nasal cavity c) mouth d) larynx e) esophagus	
(الجويف رئيفن)	
14. Smoking can cause	
a) lung cancer	
d) raises blood pressure  and receases nathmat endesteror  in المعنف الرحم أهرا الله على المنعنف الرحم أهرا الله	
e all of the above choices are correct	
(e) all of the above choices are correct  (all , lis Smoleing  Transcription m RNA Translation of mRNA produces a: DNA m RNA Translation produces a DNA b) RNA (c) protein. d) glycogen e) lipid	
15. Translation of mRNA produces a: ONA - MRNA Translation Pro	te
a) DNA b) RNA protein. d) glycogen e) lipid	
المتكان الرباس a) grycogen e) npid المتكان الرباس 16. Asexual reproduction can proceed via :	
a) Budding b) Fission c) Fragmentation e)none of the above	
dall of the above	
Wastes are toxic breakdown products of protein > 8 nucleic	
" " " " " " " " " " " " " " " " " " "	
Nitrogenous b) Acidic c) Basic ) d) Hydrogen e) CO2	
طبعا المخلفات الشوصية سيرون صبينا فن تكد الدوست أو النصاهب	
y g all	

3.7	حلعات القال
	18. The main functions of heart valves is to prevent the of blood
	a) overflow b) intermittent flow (c) back-flow e) slow flow النوى و العالم الع
	5.2 d) vigorous flow
	النيق في الله و) slow flow . النيق في الله على على الله و) على على الله على الله على الله على الله على الله على
	19. The sinoatrial node (SA node) in the pacemaker which sets the rate of heart
	and generates electrical signals in atria
	e) a+b are correct choices
	20. The two sister chromatids are joined together tightly at the, a
	narrow region. A confromere
	a) Nuclear envelope b) Spindle c) Microtubules
	(d) Centromere. e) Nucleolus
	تعدد إلى
	21. In kidney, Reabsorption means that water and valuable solutes are returned
	to the from the filtrate - ( منالرا شعراله البول) > Secret
	a) giomerulus b) renai pelvis c) renai cortex
	( 2
	22. Gas exchange in fish is enhanced by ventilation of the gills and by the
	flow of water and blood.
	a) Exact نف b) Different c) Analogous وما ثور عا ثور الم
O-	a) Exact b) Different c) Analogous  (i) Countercurrent e) Negative blood 2 water flow are in opposite directions
	blood 2 water flow are in opposite directions
=ma	23. mRNA is produced in the process called: > - مترانتا صون علير تسمى ما المامين الما
	a) Respiration. b) Translation. c) Replication.
	(d) Transcription. e) Transpiration Translator
	a) Respiration.  b) Translation.  c) Replication.  d) Transcription.  e) Transpiration Translator  Transcription mRNA > Protein
	(24. Sperm production is regulated by a negative feedback system of hormones and
	involves the , pituitary, and testes.
	a) Hypothalamus b) Thyroid c) Thalamus
	d) Cerebrum e) Ovaries
	25. Gastrulation produces: hollow gastrula from hollow blastula.
	a) A tow-layered embryo. b) A primary oocyte.
	c) A large number of sperm. d) Mature ova. (e) A three-layered embryo.
	girt third this or the state of
	26. Each amino acid in a protein synthesis is specified by:
	a) several genes b) a promoter c) tRNA molecule d) a codon. e) exon
	27. Ectothermic animals: من الدونتن سيكو بيدان سي محاص عن الدونتن سيكو بيدان سي المحاص عن الدونتن سيكو بيدان سي
	✓ a) derive body heat mainly from their metabolism → -mdothwmic
	د المعاني من absorb heat from their surroundings (المعاني من include lizards د
	25 OUTER
969	environment surrounding 4)
	lizard
	3 amphalaing

28. The blood clotting process includes which is Temperary	t
Oltabarra alati 11 4	
e All of the above choices are correct  d) the platelet plug is temporary clot	
. The above choices are correct	
29 The kidney's filmet	
29. The kidney's filtrate consists of  a) solutes  b) wree	
Signature above choices are correct	
Ou 30. Blood pressure is	
الما الما الما الما الما الما الما الما	
-b) Decreases as blood moves	
على عند فا لغت خوالعت من العدم العد	
* d) Reduced during too much exercise مثم از وعب الدعوم خوالعث العثمان الدعوم خوالعث العثم العثم الدعوم خوالعث العثم العثم الدعوم خوالعثم العثمان الدنفاندن ولاحقود و العثم العثمان ا	
e) a+b+c are correct above to a	
because excercise z emotion	
31 Marine animals that I	
31. Marine animals that have body fluids with a solute concentration equal to that	
of the surrounding seawater are:	
of the surrounding seawater are:  a) osmoregulators d) hypotonic.  b) osmoconformers e) a and c are correct.  c) hypertonic e) a and c are correct.	
e) a and c are correct.	
27 Osmoregulation.	
parents. involves inheritance of unique combination of genes from two	
a) Pagamanti	
a) Regeneration. b) Fragmentation. c) Budding.	
Sexual reproduction. e) Binary fission. c) Budding.	
. O Af	
a) Chromosomes are located on genes.  (b) Genes are located on chromosomes	ے.
a) Chromosomes are located on genes.  (b) Genes are located on chromosomes.	50
a) Produces are polyhier of amino acids.  d) Chromosomes are part of a chromosity.	
e) Prokaryotes have paired chromosomes  Single Circular Small	
34. A is a change in the much it	
c) transposition at the nucleotide sequence of DNA	
( ) Conservation of the co	
i) 35. Meiosis: Deletion or insertion (U) Change in mRNA frame	
2) Occurs in the	
b) produces sperm	
d) produce haploid cell. (e) all of the above. c) produces eggs	
d) produce haploid cell. Qall of the above.	31)
36. In Mendel's F2 generation, one out of four plants had white flowers because	. ,
a) The trait is sex-linked c) One parent was homozygous recessive	
a) Doll parents were heterozygous white	
e) One parent was heterozygous purple  Purple (Dominant)	
PI	115020
$P_4 PP/P_P$	
P PP PP - D RABBILITY White	
Parent inles 5 (ZP) 2 vin will	

الديت القرهر ليذحرك 37. The correct sequence of the stages of mitosis is a) prophase, anaphase, metaphase, telophase prophase, metaphase, anaphase, telophase c), metaphase, anaphase, telophase, prophase d), metaphase, prophase anaphase, telophase e), telophase, prophse, anaphase. metaphase. 38. Mendel showed that parents pass heritable factors to offspring, These heritable factors are now called: a) Chromosomes: b) Chromatids: c) RNA. d) DNA. (e) Genes. انعتاال 39. Cytokinesis in animal cells is accomplished by: a) Cleavage furrow made by contractile ring of intermediate filaments. (b) Cleavage furrow made by contractile ring of microfilaments. c) Cleavage ring made by microtubules. d) Binary fission. e) Cell plate formation - in Plant (ell 40. The movement of the sperm tail is due to the: a) fertilization b) primary spermatogenesis c) the large number of sperm d) spermatids e) ATP released from mitochondria Coin middle Diecy GOOD LUCK

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مواد طبية وصيدلانية

أحياء 110

دكتور / جمال الشعراوى