Excretion

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- a) ability to regulate internal environment.
- b) maintenance of steady internal conditions despite fluctuations in the external environment.
- c) maintenance of internal temperature within narrow limits.
- d) control of the gain and loss of water and solutes.
- e) all of the above

2-	The kidne	ey's filtrate	consists of	

- a) solutes
- b) urea
- c) water
- d) vitamins
- e) all of the above choices are correct

3- Marine animals that have body fluids with a solute concentration equal to that of the surrounding seawater are:

- a) osmoregulators)
- b) osmoconformers
- c) hypertonic
- d) hypotonic.
- e) a and c are correct.

4- In kidney,Reabsorption means that water and valuable solutes are returned to the _____ from the filtrate

- a) glomerulus
- b) renal pelvis
- c) renal cortex
- d) blood.
- e) Renal medulla.

5- Ectoothermic animals:

- a) derive body heat mainly from their metabolism.
- b) absorb heat from their surroundings
- c) include lizards
- d) include birds
- e) b and c are correct.

Gas exchange and circulation

6-	The $oldsymbol{O}_2$ that diffuses into blood attaches to in red blood cells.
	a) plasma b) white blood cells
	c) <u>hemoglobin</u> d) platelets
	e) all of the above choices are correct.
	e) all of the above choices are correct.
7 -	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) <u>nasal cavity</u>
	c) mouth
	d) larynx
	e) esophagus
8-	During rib cage expands, diaphragm moves down pressure
	and lung decreases, air is drawn into the respiratory tract.
	a) exhalation
	b) <u>inhalation</u>
	c) respiration
	d) passive diffusion
	e) active diffusion
9-	The sinoatrial node (SA node) in the pacemaker which sets the rate
	of heart and generates electrical signals in atria
	a) rhythm
	b) <u>contractions</u>
	c) relaxations
	d) resting
	e) a+b are correct choices
10	- Atherosclerosis is due to
	a) plaques narrowed blood vessels
	b) blood flow is reduced
	c) plagues develop inside walls of blood vessels

- d) blood flow is doubled
 e) a+b+c are correct choices
 Gas exchange in fish is enhance
- 11-Gas exchange in fish is enhanced by ventilation of the gills and by the ----- flow of water and blood. a) Exact b) Different c) Analogous d) Countercurrent e) Negative Most of carbon dioxide in the blood is transported as 12bicarbonate ions in the _____ a) Plasma b) Red blood cells c) White blood cells d) Platelets e) Macrophages Blood pressure is_____ 13a) Highest in arteries b) Decreases as blood moves away from the heart c) Lowest in veins d) Reduced during violent exercise e) A+b+c are correct choices **Reproduction** 14- Sperm production is regulated by a negative feedback system of hormones and involves the_____, pituitary, and testes. a) Hypothalamus b) Thyroid c) Thalamus

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d) Cerebrume) Ovaries

15-	The	movement of the sperm tail is due to the:
	a) fe	rtilization
		imary spermatogenesis
		e large number of sperm
		permatids
	e) A	TP released from mitochondria
16-	The	process by which the sperms are produced is known as
-	a) C	ovulation.
	b) S	permatogenesis.
	c) C	Oogenesis.
	d) G	Sestation.
	e) e	mberyogenesis.
17-	Gas	trulation produces:
	a) At	ow-layered embryo.
	b) A p	orimary oocyte
	c) Al	arge number of sperm.
	d) Ma	ature ova.
	e) At	hree-layered embryo.
18-		involves inheritance of unique combination of
8		from two parents.
		•
		Regeneration.
	b)	Regeneration. Fragmentation.
	b) c)	Regeneration. Fragmentation. Budding.
	b) c) d)	Regeneration. Fragmentation. Budding. Sexual reproduction.
	b) c) d)	Regeneration. Fragmentation. Budding.
	b) c) d)	Regeneration. Fragmentation. Budding. Sexual reproduction.
	b) c) d)	Regeneration. Fragmentation. Budding. Sexual reproduction.
19-	b) c) d) e)	Regeneration. Fragmentation. Budding. Sexual reproduction.
	b) c) d) e)	Regeneration. Fragmentation. Budding. Sexual reproduction. Binary fission.
	b) c) d) e) Pro fission	Regeneration. Fragmentation. Budding. Sexual reproduction. Binary fission. karyotes reproduce by a type of cell division called binary
	b) c) d) e) Pro fission a)	Regeneration. Fragmentation. Budding. Sexual reproduction. Binary fission. karyotes reproduce by a type of cell division called binary which means
	b) c) d) e) Pro fission a) b)	Regeneration. Fragmentation. Budding. Sexual reproduction. Binary fission. karyotes reproduce by a type of cell division called binary which means Split via budding.

e) None of the above.

Genetics

20-	The two sister chromatids are joined together tightly at the
	, a narrow region.

- a) Nuclear envelope
- b) Spindle
- c) Microtubules
- d) Centromere.
- e) Nucleolus

21- 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

22- In Mendel's F2 generation, one out of four plants had white flowers because .

- a) The trait is sex-linked
- b) Both parents were heterozygous purple
- c) One parent was homozygous recessive
- d) Both parents were heterozygous white
- e) One parent was heterozygous purple

23- The expression of the two alleles in a heterozygous individual is the result of:

- a) Crossing over.
- b) Codominance.
- c) Polygenic inheritance.
- d) Pleiotropy
- e) Chromosomes.

24- In grasshoppers and roaches sex is determined by:

- a) X-Y system.
- b) Z-W system.
- c) Number of chromosomes

- d) Size of the sex chromosomes.
- e) X-O system.

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25- Which of the following is true?

- a) Chromosomes are located on genes.
- b) Genes are located on chromosomes.
- c) Genes are polymer of amino acids.
- d) Chromosomes are part of a chromatid.
- e) Prokaryotes have paired chromosomes.

26- mRNA is produced in the process called:

- a) Respiration.
- b) Translation.
- c) Replication.
- d) Transcription.
- e) Transpiration

27- 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.

28- The somatic cells in human male have chromosomes of the type

- a) 22+ X.
- b) 22 + Y.
- c) 23 + Y.
- d) 44 + XX.
- e) 44 + XY.

- 29- _____ is the division of the cytoplasm following mitosis and meiosis.
 - a) Crossing over
 - b) Cytokinesis.
 - c) Cleavage
 - d) Binary fission
 - e) Interkinesis
- 30- What are the correct order for the 3 stages of interphase of cell cycle:
 - a) S, G1, G2
 - b) S, G2, G1
 - c) G1, G2, S
 - d) G1, S, G2.
 - e) there is no certain order