

بِسْمِ اللَّهِ الرَّحْمَنِ الرَّحِيمِ

ZOOLOGY

【 Physiology 】

【 Histology 】

بنك الأسئلة

2025

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1 Mcq :

【1】 Which of these are not mechanical digestion ?

A. Esophagus

B. Stomach

C. Mouth

D. Liver

💡 Answer: D

【2】 Reticular fibers of connective tissue are stained with

A. PAS

B. Silver

C. Both

D. None of these

💡 Answer: C

【3】 Mast cell secretes

A. Adrenaline

B. Heparin

C. Noradrenaline

D. Lipids

💡 Answer: B

【4】 Mature RBCs are

A. Nucleated

B. Biconcave

C. Biconvex

D. Closed

💡 Answer: B

【5】 One of the six classes of nutrients that includes sugars, starches and fibers . The body's main Source of energy.....

A. Vitamins

B. Fats

C. Proteins

D. Carbohydrates

💡 Answer: D

【6】 Excessive intake of calcium in our diet results in.....

- A. Stroke
- B. Diarrhoea
- C. Constipation
- D. Kidney stones

💡 Answer: D

【7】 Breakdown of RBC produces all of the following except.....

- A. Macrophages in the liver and spleen destroy the old RBCs
- B. The heme units break down into biliverdin and bilirubin
- C. Iron is transported to bone marrow by ferritin
- D. The globin portion of hemoglobin is broken down into amino acids.

💡 Answer: C

【8】 In which part of the respiratory system gaseous exchange takes place ?

- A. Larynx
- B. Pharynx
- C. Alveoli
- D. Trachea

💡 Answer: C

【9】 Which of these statements is true about internal respiration ?

- A. Production of ATP
- B. Exchange of gases between the bloodstream and tissue cells
- C. Exchange of gases between alveoli and the bloodstream
- D. Breathing between the atmosphere and the alveoli

💡 Answer: B

【10】 Megakaryoblasts are involved in the process of.....

- A. Hemostasis
- B. Leuko Poiesis
- C. thrombosis ✓

💡 Answer: C

【11】 When the diaphragm and intercostal muscles contract, which of the following occurs

- A. The pressure inside the lungs increases
- B. The volume inside the lungs increases
- C. Air flows out of the lungs
- D. The ribcage moves back down

 **Answer: B**

【12】 Polycythemia is the

- A. Decrease in the blood volume
- B. Decrease in the platelets
- C. Rise in the Erythrocytes
- D. Rise in the platelets

 **Answer: C**

【13】 Which of the following is the correct sequence for the Pulmonary circuit ?

- A. Right ventricle $\Rightarrow$ Pulmonary vein $\Rightarrow$ Lungs $\Rightarrow$ Pulmonary Artery $\Rightarrow$ Left Atrium
- B. Left Atrium $\Rightarrow$ Pulmonary vein $\Rightarrow$ Lungs $\Rightarrow$ Pulmonary Artery $\Rightarrow$ Right ventricle
- C. Left Atrium $\Rightarrow$ Pulmonary Artery $\Rightarrow$ Lungs $\Rightarrow$ Pulmonary vein $\Rightarrow$ Right ventricle
- D. Right ventricle $\Rightarrow$ Pulmonary Artery $\Rightarrow$ Lungs $\Rightarrow$ Pulmonary vein $\Rightarrow$ Left Atrium

 **Answer: D**

【14】 Pigment cells contain

- A. Peroxisomes
- B. Melanosomes
- C. None

 **Answer: B**

【15】 Which of the following vitamins cannot be produced by our body ?

- | | |
|--------------|---------------------|
| A. Vitamin A | B. Vitamin K |
| C. Vitamin C | D. All of the above |

 Answer: D

【16】 What is the difference between vitamins and minerals ?

- A. Our bodies make vitamins but not minerals
- B. Vitamins come from plant or animals minerals come from the earth
- C. Vitamins supply energy, minerals help make new cells
- D. All of the above

 Answer: B

【17】 Secretin secreted by the duodenum and stimulates the secretion of

- | | |
|-------------------|----------------------|
| A. Gastric juices | B. Pancreatic enzyme |
| C. Bile | D. Pancreatic juice |

 Answer: D

【18】 Which of the following organs functions as an air conditioner ?

- | | |
|-------------------|---------------------|
| A. Larynx | B. Pharynx |
| C. Nasal chambers | D. All of the above |

 Answer: D

【19】 All of the following are high in calcium. Except.....

- | | |
|-------------------|---------------------------|
| A. Vanilla yogurt | B. Poached egg |
| C. Low fat milk | D. Leafy green vegetables |

 Answer: B

【20】 Serum is blood plasma without

- | | |
|-------------|---------------|
| A. Proteins | B. Hormones |
| C. Minerals | D. Fibrinogen |

 Answer: **D**

【21】 The gaseous exchange in alveoli is a type of

- | | |
|---------------------|----------------------|
| A. Simple diffusion | B. Osmosis |
| C. Active transport | D. Passive transport |

 Answer: **A**

【22】 Which of the following is correct for the partial pressure of oxygen in alveoli ?

- A. Less than carbon dioxide
- B. Less than the blood
- C. More than the blood
- D. Equal to that of the blood

 Answer: **C**

【23】 The normal breathing process is controlled by

- | | |
|-----------------------------|------------------------------|
| A. Lungs | B. Ventral respiratory group |
| C. Dorsal respiratory group | D. Both (b) and (C) |

 Answer: **D**

【24】 In Lungs , oxygen diffuses from air to venous blood because of the partial pressure of oxygen in the lung air the partial pressure of oxygen in the venous blood .

- | | |
|-----------------|-----------------|
| A. Less than | B. the same as |
| C. Greater than | D. Variable for |

 Answer: **C**

【25】 Which of the following examples of specialized connective tissue ?

- A. Epithelial tissue
- C. Muscle tissue

- B. Nervous tissue
- D. Cartilage

 **Answer: D**

【26】 Which cells are responsible for secretion antibodies ?

- A. Plasma cells
- C. Lymphocytes

- B. Fat cells
- D. Mast cells

 **Answer: A**

【27】 Where is Simple columnar epithelial tissue found ?

- A. Skin
- C. Urinary bladder

- B. Intestines
- D. Blood

 **Answer: B**

【28】 What is the threshold potential that must be reached to initiate an action potential ?

- A. +35 mv
- C. - 70 mv

- B. - 55 mv
- D. 0 mv

 **Answer: B**

【29】 Cardiac risk is

- A. HDL cholesterol divided by LDL cholesterol
- B. LDL cholesterol divided by HDL
- C. Total cholesterol divided by LDL
- D. Total cholesterol divided by HDL cholesterol

 **Answer: D**

【30】 Which of these correctly orders the structures through which air passes during inhalation ?

- A. Pharynx → trachea → Larynx → bronchi
- B. Pharynx → Larynx → trachea → bronchi
- C. Larynx → Pharynx → bronchi → trachea
- D. Larynx → Pharynx → trachea → bronchi

 **Answer: B**

【31】 Mature RBCs are

- A. Nucleated
- B. Non - Nucleated
- C. Biconvex
- D. All of the above

 **Answer: B**

【32】 Bipolar nerve having

- A. A single process
- B. Two process
- C. Several process
- D. None of these

 **Answer: B**

【33】 A thin layer of connective tissue investing individual nerve fiber .

- A. Endoneurium
- B. Epineurium
- C. Perineurium
- D. All of them

 **Answer: A**

【34】 Which of the following is not true for the ventricular systole?

- A. The ventricles contract
- B. The ventricles relax
- C. The atrioventricular valve close
- D. The semilunar valves open

 **Answer: B**

【35】 Erythropoietin is a produced by the

- | | |
|---------------------|---------------------|
| A. enzyme , liver | B. Vitamin , spleen |
| C. enzyme , kidneys | D. hormone , kidney |

 **Answer: D**

【36】 The right atrium receives blood from the

- | | |
|-----------------------|-----------------------|
| A. Superior vena cava | B. Inferior vena cava |
| C. Aorta | D. a and b |

 **Answer: D**

【37】 Which two valves are located between the atria and the ventricles ?

- A. Bicuspid valve and Aortic valve
- B. Pulmonary valve and Aortic valve
- C. Aortic valve and Tricuspid valve
- D. Mitral valve and Tricuspid valve

 **Answer: D**

【38】 Which acid is produced in the stomach ?

- | | |
|----------------------|-------------------|
| A. Hydrochloric acid | B. Citric acid |
| C. Sulfuric acid | D. Digestion acid |

 **Answer: A**

【39】 In old age, elastic fibers

- | | |
|------------------|---------------------|
| A. Still elastic | B. become calcified |
| C. Thinned | D. None |

 **Answer: B**

2 True or False :

- 【40】 The palatine glands secrete mucus. 
- 【41】 Salivary glands are holocrine glands. 
- 【42】 Blood vessels are seen between the epithelial cells . 
- 【43】 The skeletal muscle fibers show no striation. 
- 【44】 The smooth muscles are voluntary in action. 
- 【45】 The epithelial tissue has the ability of regeneration. 
- 【46】 Movement of striated muscles controlled by the will of the individual. 
- 【47】 The epithelial tissues produce germ cells .
- 【48】 The muscular tissues are ectodermal in origin. 
- 【49】 The epithelial lining of the thyroid follicles are simple cuboidal epithelium. 

【50】 Fibroblasts secrete matrix of connective tissue. 

【51】 Macrophage of connective tissue is phagocytic. 

【52】 RBCs serve in gas exchanges. 

【53】 Your stomach is located right behind your belly button.


【54】 The job of the digestive system is to break food down so that our bodies can use it as fuel or energy. 

【55】 The gallbladder is absolutely essential to digestion. 

【56】 Unipolar nerve cells having severe processes. 

【57】 Matrix of bone is semisolid. 

【58】 Cartilage containing calcium sulfate matrix. 

【59】 Matrix of cartilage is semisolid. 

【60】 Collagenous fibers are affected by boiling water. 

【61】 Plasma cells serve in antibody production. 

【62】 Reticular fibers are argyrophobic. 

【63】 The excretory system usually reabsorbs less water when a person drinks a lot of water than when a person drinks little water. 

【64】 Bile enzymatically digests fats and related lipids. 

【65】 Most of digestion and absorption takes place in the stomach. 

【66】 Most digestion occurs in the small intestine. 

【67】 Carbon dioxide is released during the process of respiration. 

【68】 Thrombocyte is considered a leucocyte. 

【69】 The blood consists of a suspension of special cells in a liquid called plasma. 

【70】 Neurons are structural and functional units of the nervous system. 

【71】 Connective tissues are formed of fibers , cells and matrix.



【72】 Matrix of bone is calcium sulfate. ✗

【73】 The kidneys filter out toxins , urea , Water , and minerals salts from the blood . ✓

【74】 Most of the carbon dioxide produced in the tissues is transported to the lungs as bicarbonates. ✓

【75】 immature reticulocytes have many nucleated cytoplasm. ✗

3 Mcq:

【76】 Have a central round nuclei shape .

A. Simple cuboidal

B. Simple squamous

C. Simple columnar

D. Simple ciliated columnar

💡 Answer: A

【77】 A type of epithelial tissue haven't basement membrane.

A. Simple squamous

B. Simple columnar

C. Simple ciliated columnar

D. Simple cuboidal

💡 Answer: A

【78】 What are neurotransmitters ?

- A. Electrical signals that transmit between neurons
- B. Cells that support neurons
- C. Chemical substances that transmit signals between neurons
- D. Parts of the neuron that receive signals

 Answer: C

【79】 what is the main result of open channels of high voltage sodium in the membrane of nerve cells ?

- A. Hyperpolarization
- B. Repolarization
- C. Resting potential
- D. Depolarization

 Answer: D

【80】 What happens when an action potential reaches an axon?

- A. Neurotransmitters are absorbed
- B. Neurotransmitters are released
- C. Myelin sheath is formed
- D. Signals are received from other cells

 Answer: B

【81】 In the epithelial tissue , Nutrients can pass through the basement membrane by

- A. Selective permeable
- B. Diffusion
- C. Phagocytosis
- D. Osmosis

 Answer: B

【82】 Where does food being digestion ?

- A. Stomach
- B. Uterus
- C. Liver
- D. Heart

 Answer: A

【83】 What are enzymes ?

- A. Living things
- B. Yeast cells
- C. Proteins
- D. All of the above

 Answer: C

【84】 The functions of the larynx are the following Except:

- A. Breathing
- B. Prevent food of entering trachea
- C. Creating vocal sounds
- D. Secreting enzymes for digestion

 Answer: D

【85】 A normal rate of respiration is

- A. 40 - 50 breaths / min
- B. 5 - 15 breaths / min
- C. 10 - 20 breaths / min
- D. Not of the above

 Answer: C

【86】 The exchange of gases between the external environment and the lungs

- A. Respiration
- B. External respiration
- C. Cellular respiration
- D. None of the above

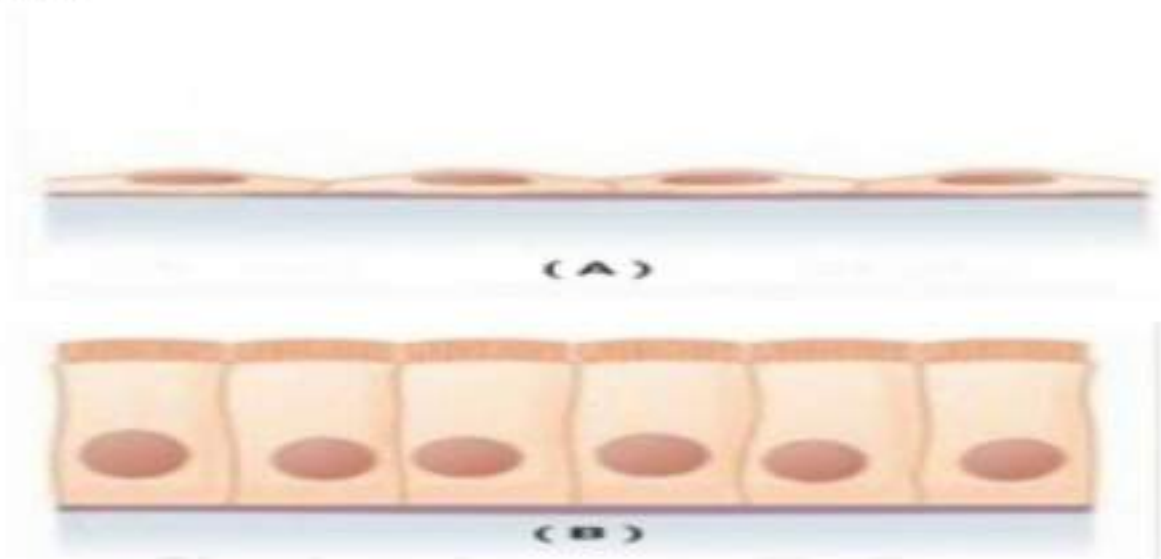
 Answer: B

【87】 Which of the following parts of the brain regulates the respiratory process ?

- A. The vagus nerve
- B. Cerebral peduncle
- C. Medulla oblongata
- D. Cerebellum

 Answer: C

【88】



What is Label (A) located in the body ?

- A. In small intestines
- B. In lungs
- C. In Bowman's capsule of kidney
- D. In glands

💡 Answer: C

【89】 What characterizes the shape of the nucleus of (B)

- A. Oval
- B. Flattened
- C. Rectangular
- D. Angle

💡 Answer: A

【90】 What is the characteristic of composition (A) from composition of (B) ?

- A. Pillar shape one layer from all cells
- B. Have basement membrane
- C. In the small intestine , so have absorption function
- D. Haven't basement membrane

💡 Answer: D

【91】 What characterizes the shape of the nucleus of (A) ?

- A. Oval
- B. Flattened
- C. Rectangular
- D. Angle

 Answer: B

【92】 The structure that carries urine from the urinary bladder to the outside world is called the

- A. Urethra
- B. Ureter
- C. Prostrate
- D. Penis

 Answer: A

【93】 Which of the following is the correct sequence of events leading to blood clotting ?

- A. Vasoconstriction , platelet aggregation , coagulation
- B. Platelet aggregation , Vasoconstriction , coagulation
- C. Vasoconstriction , coagulation , platelet aggregation
- D. Platelet aggregation , fibrin formation , Vasoconstriction

 Answer: A

【94】 What ion has greater Permeability across the resting membrane of a neuron ?

- A. Sodium ions
- B. Potassium ions
- C. Chloride ions
- D. Organic anions

 Answer: B

4 Matching :

Column A	Answers	Column B
1. Ciliated simple columnar epithelium is found in	D	A. An unicellular gland
2. The sebaceous gland is	B	B. <u>Holocrine</u> gland
3. Goblet cell is considered as	A	C. The ducts of parotid gland
4. Pseudo stratified epithelium lines	C	D. The bronchioles of the lung
5. The mammary gland is	E	E. An apocrine gland

Column A	Answer	Column B
1. Smooth muscles are	C	A. <u>Holocrine</u> glands
2. Sebaceous gland are	A	B. Voluntary muscles
3. Palatine glands are	E	C. Involuntary muscles
4. Striated muscles	B	D. Renal tubules
Epithelia perform excretory function in	D	E. Mucous gland

By : Ahmed Salah

thank you



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♥ وفقكم الله إن شاء الله يا علماء المستقبل