REV-01 BSZ/19/24

> **B.Sc. ZOOLOGY** FOURTH SEMESTER COMPARATIVE ANATOMY OF VERTEBRATE BSZ-401

[USE OMR SHEET FOR OBJECTIVE PART]

2023/06 SET B

Duration: 3 hrs.

Time: 30 mins.

Objective)

Choose the correct answer from the following:

Marks: 20

Full Marks: 70

1×20=20

- 1. Single circuit heart is: a. Oxygenated and deoxygenated blood mixed with each other
 - c. Found in gill bearing animals
- b. Having 2 chambers
- d. All of the above
- 2. Bicuspid valve is also called as:
 - a. Semilunar valve

b. Spiral valve

c. Mitral valve

- d. Having no other names
- 3. Spiral valve are found in:
 - a. Urodela

b. Urochordata

c. Anura

- d. Reptiles
- 4. The process of exchange of gases in Aves occurs in the:
 - a. Air sacs and lungs
- b. Lungs

c. Air sacs

d. None

d. None

d. None

- 5. Out of the following, which one can be identified as the function of the trachea?
 - a. Exchange of gases
- b. Exhaling or removal of air from our body

b. Middle part of the nephrostome

- c. Filtering the air that we breathe
- d. All of the above
- 6. Mesonephros develops from:
 - a. Top part of the nephrostome
 - c. Lower part of the nephrostome
- 7. Receptors for hearing are called as: b. Auditory receptor
- a. Photo receptor
 - c. Olfactory receptors
 - In bicornuate type of uterus:
 - a. 2 uterus present
 - c. One uterus

 - The Y shaped uterus is:
 - a. Duplex
 - c. Bicornuate

- b. Simplex
- d. Bipartite
- 10. Two cervixes are found in:
 - a. Monotreme uters c. Duplex uterus
- b. Marsupial uterus

b. 2 horns and 2 uterus

d. 2 horns and 1 uterus

d. All of the above

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11.	The blood transporting channel having only a. Vein c. Arteriols	b.	dothelial layer is: Artery Capillary
12.	The organism containing only one cuspid va a. Mammal c. Bird	b.	are: Reptiles Amphibia
13.	Incomplete interauricular septum in dipnois a. Foramen ovalec. Septum bulbi	b.	e called as: Foramen of panizza None
14.	The main difference in avian and mammalia a. Atrium c. Chambers	b.	eart is found in: Ventricle Valves
15.	Identify the part of the respiratory system ir a. Trachea c. Pharynx	b.	hich the exchange of gases takes place? Larynx Alveoli
16.	The most primitive types of true kidneys are a. Mesonephros c. Archinephros	b.	Pronephros Metanephros
17.	The kidneys found only in amniotes are: a. Mesonephrosc. Pronephros		Archinephros Metanephros
18.	The vaginal canal is bifurcated in: a. Monotreme type of uterusc. Duplex uterus		Simplex uterus Marsupial type of uterus
19.	The uterus found in rodents are: a. Duplexc. Simplex		Bicornuate Bipartite
20.	The uterus in human are: a. Duplex c. Bicornuate		Simplex Bipartite

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(Descriptive)

Time: 2 hr. 30 mins.		
	[Answer question no.1 & any four (4) from the rest]	
1.	Describe briefly the circulatory system of vertebrate with proper labeled diagram.	6+4=10
2.	Describe the structure of Avian and Mammalian heart. What are the differences between reptile and avian heart? Describe with proper diagram.	5+5=10
3.	Explain the structural significance of lungs in Amphibia and mammalia.	5+5=10
4.	Define portal system and their types. Give difference between Single circulation and Double circulation with example and diagram.	2+8=10
5.	Describe the basic structure of uterus. Define eutherian type of uterus with proper diagram.	2+8=10
6.	What are the different types of kidneys? Describe their general plan with diagram. Describe about primitive ancestral vertebrate kidney with diagram.	5+5=10
7.	What are receptors? Classify them and write briefly about visceral receptors with diagram.	2+2+6=10
8.	What is autonomic nervous system? Describe briefly. Write briefly about spinal cord of mammal.	5+5=10

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