REV-01 BSZ/01/05 2023/06

SET

Full Marks: 70

B.Sc. ZOOLOGY FOURTH SEMESTER (REPEAT) COMPARATIVE ANATOMY OF VERTEBRATE BSZ-401

[USE OMR SHEET FOR OBJECTIVE PART]

Duration: 3 hrs.

Time: 30 mins.

Objective

Marks: 20

Choose the correct answer from the following:

 $1 \times 20 = 20$

1. Single circuit heart is:

a. Oxygenated and deoxygenated blood mixed with each other

b. Having 2 chambers

c. Found in gill bearing animals

d. All of the above

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 c. Anura

b. Urochordata

The process of exchange of gases in Aves occurs in the:

d. Reptiles

a. Air sacs and lungs

b. Lungs

c. Air sacs

d. None

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

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

b. Middle part of the nephrostome

d. None

Receptors for hearing are called as:

a. Photo receptor

b. Auditory receptor

d. None

c. Olfactory receptors In bicornuate type of uterus:

a. 2 uterus present

c. One uterus

b. 2 horns and 2 uterus

d. 2 horns and 1 uterus

The Y shaped uterus is:

a. Duplex

c. Bicornuate

b. Simplex d. Bipartite

10. Two cervixes are found in:

a. Monotreme uters

b. Marsupial uterus d. All of the above

c. Duplex uterus

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11.	The blood transporting channel havin a. Vein	b. Artery
	c. Arteriols	d. Capillary
12.	The organism containing only one cus	pid valve are:
	a. Mammal	b. Reptiles
	c. Bird	d. Amphibia
13.	Incomplete interauricular septum in dipnois are called as:	
	a. Foramen ovale	b. Foramen of panizza
	c. Septum bulbi	d. None
14.	The main difference in avian and mammalian heart is found in:	
	a. Atrium	b. Ventricle
	c. Chambers	d. Valves
15.	Identify the part of the respiratory system in which the exchange of gases takes place	
	a. Trachea	b. Larynx
	c. Pharynx	d. Alveoli
16.	The most primitive types of true kidneys are:	
	a. Mesonephros	b. Pronephros
	c. Archinephros	d. Metanephros
7.	The kidneys found only in amniotes a	re:
	a. Mesonephros	b. Archinephros
	c. Pronephros	d. Metanephros
8.	The vaginal canal is bifurcated in:	
	a. Monotreme type of uterus	b. Simplex uterus
	c. Duplex uterus	d. Marsupial type of uterus
9.	The uterus found in rodents are:	
	a. Duplex	b. Bicornuate
	c. Simplex	d. Bipartite
20.	The uterus in human are:	
20.	a. Duplex	b. Simplex
	c. Bicornuate	d. Bipartite
		ar Dipartite

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(Descriptive)

Time: 2 hr. 30 mins.

Marks: 50 [Answer question no.1 & any four (4) from the rest] What is autonomic nervous system? Describe briefly. 5+5=10 Write briefly about spinal cord of mammal. Describe the structure of Avian and Mammalian heart. What are the 5+5=10 differences between reptile and avian heart? Describe with proper diagram. Explain the structural significance of lungs in Amphibia and 5+5=10 mammalia. 4. Define portal system and their types. Give difference between Single 2+8=10 circulation and Double circulation with example and diagram. Describe briefly the circulatory system of vertebrate with proper 6+4=10 labeled diagram. What are the different types of kidneys? Describe their general plan 5+5=10 with diagram. Describe about primitive ancestral vertebrate kidney with diagram. 7. What are receptors? Classify them and write briefly about visceral 2+2+6=10 receptors with diagram. Describe the basic structure of uterus. Define eutherian type of uterus 2+8=10 with proper diagram.