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COMMON QUARTERLY EXAMINATION - 2023

MODEL QUESTION PAPER – 1

SUBJECT: ZOOLOGY

TIME: 3:00 hrs

CLASS: XI

MAX-MARKS: 70

Instructions:

- Check the question paper for fairness of printing.
- If there is any lack of fairness, inform the Hall Supervisor immediately.
- Use blue or black ink to write and underline and pencil to draw diagrams.

SECTION – A

Choose the most suitable answer from the given four alternatives and write the option code and the corresponding answer. 15 x 1 = 15

1. Who coined the term biodiversity?

a) Walter Rosen	b) AG Tansley	c) Aristotle	d) AP de Candole
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2. Match the following columns and select the correct option.

Column – I	Column – II	
(p) Pila	(i) Devil fish	a) p – (ii) q – (i), r – (iii) s – (iv)
(q) Dentalium	(ii) Chiton	b) p – (iii) q – (iv) r – (ii) s – (i)
(r) Chaetopleura	(iii) Apple snail	c) p – (ii) q – (iv) r – (i) s – (iii)
(s) Octopus	(iv) Tusk shell	d) p – (i) q – (ii) r – (iii) s – (iv)
3. The limbless amphibian is

a) Ichthyophis	b) Hyla	c) Rana	d) Salamander
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4. The ciliated epithelium lines the

a) Skin	b) Digestive tract	c) Gall bladder	d) Trachea
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5. The location and numbers of malpighian tubules in *Periplaneta*.

a) At the junction of midgut and hindgut, about 150.
b) At the junction of foregut and midgut, about 150.
c) Surrounding gizzard, eight.
d) At the junction of colon and rectum, eight.
6. Which of the following hormones stimulate the production of pancreatic juice and bicarbonate?

a) Angiotensin and epinephrine	b) Gastrin and insulin
c) Cholecystokinin and secretin	d) Insulin and glucagon
7. The sphincter of Oddi guards

a) Hepatopancreatic duct	b) Common bile duct
c) Pancreatic duct	d) Cystic duct
8. Assertion: (A) Large intestine also shows the presence of villi like small intestine.
Reason: (B) Absorption of water takes place in large intestine.

a) Both A and B are true and B is the correct explanation of A	
b) Both A and B are true but B is not the correct explanation of A	
c) A is true but B is false	d) A is false but B is true
9. Which of the following best describes the process of gas exchange in the lungs?

a) Air moves in and out of the alveoli during breathing.
b) Carbon dioxide diffuses from deoxygenated blood in capillaries into the alveolar air.
c) Oxygen and carbon dioxide diffuse down their concentration gradients between blood and alveolar air.
d) Oxygen diffuses from alveolar air into deoxygenated blood
10. Kidney stones are produced due to deposition of uric acid and

a) silicates	b) minerals	c) calcium carbonate	d) calcium oxalate
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11. Animal requiring minimum amount of water to produce urine are

a) ureotelic	b) ammonotelic	c) uricotelic	d) chemotelic
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12. The hormone which helps in the reabsorption of water in kidney tubules is
 - a) cholecystokinin
 - b) angiotensin II
 - c) antidiuretic hormone
 - d) pancreasezymin
13. Cladogram considers the following characters
 - a) Physiological and Biochemical
 - b) Evolutionary and Phylogenetic
 - c) Taxonomic and systematic
 - d) None of the above
14. Which of the following is an egg laying mammal?
 - a) Delphinus
 - b) Macropus
 - c) Ornithorhynchus
 - d) Equus
15. Absorption of glycerol, fatty acids and monoglycerides takes place by
 - a) Lymph vessels within villi
 - b) Walls of stomach
 - c) Colon
 - d) Small intestine

SECTION – B

Answer any six of the following in about 30 words each including Q. NO: 24 which is compulsory. Each question carries two marks.

6 x 2 = 12

16. What are flame cells?
17. Some epithelia are pseudostratified. What does this mean?
18. How does the male frog attracts the female for mating?
19. How the body makes long-term adjustments when living in high altitude.
20. Distinguish between mitral valve and semi lunar valve.
21. Comment on the functions of alary muscles?
22. Name the three main hormones involved in the regulation of the renal function?
23. Differentiate between probiotics and pathogenic bacteria.
24. List the unique features of bird's endoskeleton.

SECTION – C

Answer any six of the following in about 50 words including Q. NO: 33 which is compulsory. Each question carries three marks.

6 x 3 = 18

25. List the functions of air bladder in fishes.
26. Differentiate between peristomium and prostomium in earthworm.
27. Why are villi present in the intestine and not in the stomach?
28. Why is pneumonia considered a dangerous disease?
29. Right ventricular wall is thinner than the left ventricular wall. Why?
30. Differentiate cortical from medullary nephrons.
31. What is the difference between a Zoo and wild life sanctuary?
32. Differentiate protonephridia from metanephridia.
33. Right ventricular wall is thinner than the left ventricular wall. Why?

SECTION – D

Answer the following in detail.

5 x 5 = 25

34. a) Write the classification of connective tissue and their functions. (OR)
b) What is an epithelium? Enumerate the characteristic features of different epithelia.
35. a) Explain the male reproductive system of frog. (OR)
b) Explain the conditions which creates problems in oxygen transport.
36. a) Distinguish between arteries and veins. (OR)
b) Describe the mechanism by which the human heart beat is initiated and controlled.
37. a) How are the kidneys involved in controlling blood volume? How is the volume of blood in the body related to arterial pressure? (OR)
b) List any five salient features of the family Felidae.
38. a) List the characteristic features that distinguish cartilaginous fishes with living jawless fishes. (OR)
b) What is the function of antidiuretic hormone? Where is it produced and what stimuli increases or decreases its secretion?