

GOVERNMENT ZIRTIRI RESIDENTIAL SCIENCE COLLEGE

Subject : Zoology
Paper name : Chordate Biology and Anatomy
Paper No : ZL III
Semester : 2nd

A. Multiple choice questions [25 (5 from each unit)]

1. Who described the Phylum Chordata in 1880?
 - a) Charles Darwin
 - b) Linnaeus
 - c) Aristotle
 - d) Balfour
2. What is the secondary cavity formed during gastrulation in *Branchiostoma*?
 - a) Blastocoel
 - b) Archenteron
 - c) Morula
 - d) Neurula
3. What is the elongated sac that encloses the heart of *Herdmania*?
 - a) Pericardium
 - b) Cloacal bladder
 - c) Aorta
 - d) External valve
4. Class Mammalia belongs to which Superclass?
 - a) Acraniata
 - b) Agnatha
 - c) Gnathostomata
 - d) Urochordata
5. What is ball-like structure formed after the sixth cleavage in *Brachiostoma*?
 - a) Morula
 - b) Micromeres
 - c) Megameres
 - d) Blastula
6. What is the type of scale found in fossil fishes?
 - a) Placoid
 - b) Cosmoid
 - c) Ganoid
 - d) Cycloid
7. What is the migration of fish from fresh water to ocean?
 - a) Amphidromy
 - b) Anadromy

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- c) Catadromy
 - d) Potamodromy
8. Which organism has Ampullae of Lorenzini?
- a) *Branchiostoma*
 - b) *Rana tigrina*
 - c) *Herdmania*
 - d) *Scoliodon*
9. Which organism frequently exhibits neoteny?
- a) *Pan sp.*
 - b) *Ambystoma sp.*
 - c) *Panthera sp.*
 - d) *Sus sp.*
10. What is organ involved in cutaneous respiration?
- a) Heart
 - b) Lungs
 - c) Skin
 - d) Liver
11. What gland is modifies in snakes to form the poison gland?
- a) Parotid gland
 - b) Pituitary gland
 - c) Pineal gland
 - d) Thyroid gland
12. What snake produces hematoxic venom?
- a) Cobra
 - b) Sea snake
 - c) Viper
 - d) King Cobra
13. What is the connecting link between birds and reptiles?
- a) *Canis familiaris*
 - b) *Homo neanderthalensis*
 - c) *Passer domesticus*
 - d) *Archaeopteryx lithographica*
14. What is the arrangement of feather on the body of birds?
- a) Apteria
 - b) Pterylosis
 - c) Quadrate
 - d) Pterygoid
15. What is muscle responsible for down stroke in birds?
- a) Pelvic major

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- b) Pelvic minor
 - c) Pectoralis major
 - d) Pectoralis minor
16. What is the membrane that covers the brain?
- a) Meninges
 - b) Sylvian
 - c) Pericardium
 - d) Cerebellum
17. What cells of the eye are associated with the perception of color?
- a) Gangliocytes
 - b) Hepatocytes
 - c) Rods
 - d) Cones
18. Where does digestion of fats occur?
- a) Esophagus
 - b) Stomach
 - c) Small intestine
 - d) Large intestine
19. What receptor is related to the sense of taste?
- a) Gustatoreceptor
 - b) Tangoreceptor
 - c) Olfactoreceptor
 - d) Photorecpetor
20. Which of the following is a modified integument?
- a) Kidney
 - b) Tongue
 - c) Teeth
 - d) Hair
21. What is the most common type of cartilage?
- a) White fibrous
 - b) Yellow elastic
 - c) Hyaline
 - d) Semi-elastic
22. How many chambers are present in the heart of humans?
- a) One
 - b) Two
 - c) Three
 - d) Four
23. A typical mammalian dentition has how many teeth?

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- a) 42
- b) 43
- c) 44
- d) 45

24. What is the type of collagen found in bones?

- a) Ossite
- b) Ossein
- c) Portin
- d) Glucon

25. What is the study of ligaments?

- a) Osteology
- b) Ornithology
- c) Cosmology
- d) Desmology

B. Fill up the blanks [15 (3 from each unit)]

1. Members of the Phylum Chordata has gill slit, nerve cord and _____.
2. Fertilization in *Branchiostoma* is _____ fertilization.
3. The heart of *Herdmania* is _____ chambered.
4. Fish migration for the purpose of reproduction is _____ migration.
5. Contraction of _____ aids in swimming in fishes.
6. The bone that helps in buccal respiration of frog is _____ apparatus.
7. The pH of snake venom is slightly _____.
8. Wing quills are covered by upper and lower feathers called _____.
9. Flight in birds depends on _____ law.
10. The receptor that receives light is _____.
11. The vitreous chamber of the eye is filled with _____.
12. The outer part of the brain is called _____.
13. Ligaments connect bones to _____.
14. Milk teeth is also called _____.
15. Deoxygenated blood is carried by _____.

Key Answers

A. Multiple choice questions [replace x]

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|--------|--------|--------|--------|--------|--------|--------|
| 1. d) | 2. b) | 3. a) | 4. c) | 5. a) | 6. b) | 7. c) |
| 8. d) | 9. b) | 10. c) | 11. a) | 12. c) | 13. d) | 14. b) |
| 15. c) | 16. a) | 17. d) | 18. c) | 19. a) | 20. d) | 21. c) |
| 22. d) | 23. c) | 24. b) | 25. d) | | | |

B. Fill up the blanks [replace x]

1. Notochord

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2. External
3. Single
4. Gametic
5. Myomeres
6. Hyoid
7. Acidic
8. Coverts
9. Bernoulli's
10. Photoreceptor
11. Vitreous humour
12. Cortex
13. Bones
14. Deciduous/Lacteal
15. Veins