

## **GOVERNMENT ZIRTIRI RESIDENTIAL SCIENCE COLLEGE**

**Subject : ZOOLOGY**  
**Paper name : CHORDATE BIOLOGY AND ANATOMY**  
**Paper No : ZOO /II/ EC/03**  
**Semester : II SEMESTER**

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

1. Which of these is not a chordate character?
  - a) diploblastic
  - b) longitudinal supporting rod-like notochord
  - c) a series of pharyngeal gill slits
  - d) dorsal tubular nerve chord
2. Tunic is
  - a) collar of Hemichoradates
  - b) median fin of Cephalochodates
  - c) sac-like covering of Urochordates
  - d) string inside Hemichordates
3. *Balanoglossus* belongs to the sub phylum
  - a) Cephalochordata
  - b) Urochordata
  - c) Cyclostomata
  - d) Hemichoradata
4. In which of the following animals, the direction of flow of blood changes at regular intervals due to reverse peristalsis?
  - a) *Herdmania*
  - b) *Amphioxus*
  - c) *Balanoglossus*
  - d) *Petromyzon*
5. Gonads develops from embryonic
  - a) ectoderm
  - b) endoderm
  - c) mesoderm
  - d) both mesoderm and endoderm
6. Migration of fish from sea water to freshwater is known as
  - a) Anadromous migration
  - b) Catadromous migration
  - c) Potadromous migration
  - d) Oceanodromous migration

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7. Ampulla of Lorenzini are
  - a) Tangoreceptors
  - b) Rheoreceptors
  - c) Photoreceptors
  - d) Thermoreceptors
8. Paedogenesis refers to
  - a) retention of rudimentary characters in adult
  - b) attainment of sexual maturity in an arrested larval stage
  - c) retention of larval or embryonic traits by an adult
  - d) metamorphosis
9. In which of the following animals, the skin serves as an accessory organ of respiration?
  - a) Lizard
  - b) Rabbit
  - c) Frog
  - d) Bird
10. Which structure is not associated with breathing in frog?
  - a) Buccal cavity
  - b) Lung
  - c) Diaphragm
  - d) Skin
11. Poison glands of snakes are modified
  - a) Salivary glands
  - b) Endocrine glands
  - c) Sebaceous glands
  - d) Sudoriferous glands
12. The expanded membranous part of feather is called
  - a) Rachis
  - b) Barbules
  - c) Calamus
  - d) Vane
13. *Archaeopteryx lithographica* is the connecting link between
  - a) Reptiles and birds
  - b) Amphibians and mammals
  - c) Pisces and reptiles
  - d) Mammals and amphibians
14. Quill feathers at the base of quill wings are called
  - a) Remiges

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- b) Retrices
  - c) Coverts
  - d) Down feathers
15. The most common mode of flight in bird
- a) soaring
  - b) gliding
  - c) hovering
  - d) flapping
16. The light sensitive cells present on the retina of rabbit eye are
- a) Lens
  - b) Rods
  - c) Cones
  - d) Fovea
17. Receptor that detects airborne chemicals is known as
- a) Gustatoreceptors
  - b) Mechanoreceptors
  - c) Olfactory receptor
  - d) Photoreceptors
18. Cardiac sphincter protects the back flow of
- a) bile into the liver
  - b) food into the oesophagus
  - c) blood into the heart
  - d) blood into the lungs
19. Which part of the brain is responsible for balance and coordination?
- a) Cerebellum
  - b) Optic lobes
  - c) Medulla oblongata
  - d) Temporal lobe
20. Hairs in mammals are derivatives of
- a) Endodermis
  - b) Epidermis
  - c) Dermis
  - d) Mesodermis
21. A condition where the teeth are all alike in shape and structure is
- a) heterodont
  - b) monophyodont
  - c) diphyodont
  - d) homodont
22. Small band of white, dense and fibrous elastic structure that connects bones to bones

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- a) Tendon
  - b) Ligament
  - c) Cartilage
  - d) Muscle filament
23. The sites of respiration inside the lungs are
- a) Bronchioles
  - b) Alveoli
  - c) Bronchi
  - d) trachea
24. Fluid present in synovial joints is known as
- a) tendon fluid
  - b) friction fluid
  - c) Synovial fluid
  - d) fibrous fluid
25. Compact bone is made up of concentric rings of osteocytes called
- a) osteon
  - b) lacunae
  - c) canaculi
  - d) trabeculae
- B. Fill up the blanks [15 (3 from each unit)]
1. [The circulatory system of \_\_\_\_\_ is of closed type]
  2. [In *Balanoglossus*, the \_\_\_\_\_ is doubtful, short and confined to proboscis]
  3. [In *Herdmania*, there is no \_\_\_\_\_ in the heart and the flow of blood is maintained by peristaltic waves]
  4. [The central part of the cycloid scale called \_\_\_\_\_ is the first part to develop ]
  5. [The type of locomotion found in trunk fishes and box fishes is \_\_\_\_\_ locomotion]
  6. [In *Scoliodon*, the eye ball consists of three concentric layers, viz., sclerotic, choroid and \_\_\_\_\_ layers]
  7. [Snakes eject venoms by their two hollow maxillary teeth called \_\_\_\_\_]
  8. [The venom that acts on the nervous system and brain is called \_\_\_\_\_]
  9. [The bird's largest muscle that provides power for downstroke is\_\_\_\_\_]
  10. [The exposed part of the eye ball of a rabbit is known as \_\_\_\_\_]
  11. [The anterior most part of the forebrain that are club- shaped and projecting in front of the cerebral hemispheres are known as \_\_\_\_\_]
  12. [The narrow distal part of stomach leading to intestine is called\_\_\_\_\_]
  13. Fill up \_\_\_\_\_ correct answer [The visible part of a typical tooth that projects out from the gum is known as the \_\_\_\_\_]
  14. Fill up \_\_\_\_\_ correct answer [Spongy bone is also known as \_\_\_\_\_ bone]
  15. Fill up \_\_\_\_\_ correct answer [A smooth and elastic tissue that covers and protects the ends of long bones at the joints is\_\_\_\_\_]

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### **Key Answers**

A. Multiple choice questions [replace x]

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

B. Fill up the blanks [replace x]

1. *Branchiostoma*
2. notochord
3. valve
4. fovea
5. Ostraciform
6. retina
7. fangs
8. neurotoxic
9. pectoralis major
10. cornea
11. olfactory lobes
12. pyloric
13. crown
14. Cancellous bone
15. Cartilage