

GOVERNMENT ZIRTIRI RESIDENTIAL SCIENCE COLLEGE

Subject : ZOOLOGY
Paper name : CHORDATE BIOLOGY AND ANATOMY
Paper No : ZOO /III/ 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) a longitudinal supporting rod-like notochord
 - c) a series of pharyngeal gill slits
 - d) dorsal tubular nerve chord
2. Tunic is
 - a) collar of Hemichordates
 - b) median fin of Cephalochordates
 - c) sac-like covering of Urochordates
 - d) string inside Hemichordates
3. *Balanoglossus* belongs to the sub phylum
 - a) Cephalochordata
 - b) Urochordata
 - c) Cyclostomata
 - d) Hemichordata
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 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) Retrises
 - 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) monophodont
 - 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) Branchioles
- 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