

Karanjia Auto College, Karanjia, Mayurbhanj,

CC-8

COMPARATIVE ANATOMY OF VERTEBRATES

Section A

Each question carries one mark

Fill in	the blanks	

ill i	n the blanks
1.	First cranial nerve of vertebrate is called
2.	One half pelvic girdle is called as
3.	is the structural and functional unit of kidney 4 is the horny plate in the oral
	cavity of whales
5.	Branched horn of antelope is called
6.	A pair of nerve bands present only in higher vertebrates connecting diencephalon with
	medulla oblongata and pons is called
7.	The dental formula for an adult human is
8.	Indian major carps have type of scales.
9.	Sharks have type of scales.
	Anabas has type of scales
11.	The bone of birds is called as
12.	The horn of a rhinoceros is a modified
13.	The tusk of an elephant is teeth.
14.	The tusk of wild boar is teeth.
15.	Swim bladder is found in
16.	Human has a tidal volume ml.
17.	Ptyalin acts at pH
18.	One ovary is present in class of Animalia.
19.	Ruminant stomach have inside for digestion of cellulose.
20.	Rabbits have type of uteri.
21.	Kangaroos have type of uteri.
22.	Cats and horses have type of uteri.
23.	Dogs have type of uteri.
24.	Monkeys have type of uteri.
25.	Human beings have type of uteri.
26.	Ileum is present in of mammal.

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Each question carries 1.5 mark (to be answered within 30 words)

Give the location and function of the following:

- 1. Acetabulum
- 2. ampulla of ear
- 3. Brunner's glands
- 4. cerebellum

- 5. cerebrum
- 6. Chief cells
- 7. Clara cells
- 8. Epithalamus
- 9. Fovea centralis
- 10. Gill raker
- 11. hypothalamus
- 12. Islet of Langerhans
- 13. limbic system
- 14. Macula
- 15. Medulla oblongata
- 16. Meibomian glands
- 17. Mesangial cells
- 18. Parietal cell
- 19. Pecten
- 20. Tectum
- 21. Thalamus
- 22. Vibrissae
- 23. Vitro dentinae
- 24. Incus
- 25. Statocyst
- 26. Hippocampus
- 27. Fossa ovalis
- 28. Habenullar process
- 29. Pons
- 30. Foramen of Monro
- 31. Foramen ovale
- 32. Abducens
- 33. Proprioreceptors

Define in one to two lines:

- 1. Proprioreceptors
- 2. Arbor vitae
- 3. Jacobson's organ
- 4. Sudorific Glands
- 5. Diastema
- 6. Axial skeleton
- 7. Mesobronchus
- 8. Ductus caroticus
- 9. Dermatocranium
- 10. Coronary Sinus
- 11. Anatomic Dead Space
- 12. Peyer's Patches
- 13. Tm (Transport Maximum)
- 14. Gaafian follicle

Section- C

Each question carries 2.5 mark (to be answered within 75 words)

Write short notes

- 1. Types of chemoreceptors (only name with one line definition).
- 2. Jaw suspensorium in vertebrates
- 3. Ruminant stomach
- 4. Dentition in mammals
- 5. Visceral arches
- 6. Scales of fishes
- 7. Swim bladder

Differentiate between the following

- 1. anatomy in the brain of a frog and a brain of a mammal (any four)
- 2. Placoid and ctenoid scales
- 3. Crop and Gizzard
- 4. Holobranch and Hemibranch gills
- 5. Larynx and Syrinx
- 6. True Horn and Antlers
- 7. Heterocoelous and Procoelous vertebrae
- 8. Contour feathers and Down feathers
- 9. Bicornuate and Bipartite uteri
- 10. Acetabulum and Glenoid cavity
- 11. Rod and cone cells
- 12. Physostomous and physoclistous air bladder
- 13. Bronchus and Bronchiole
- 14. Cortical Nephron and Juxtamedullary Nephron
- 15. Axial and appendicular skeleton
- 16. Chemo and mechano receptors
- 17. Spinal and cranial nerves Draw the neat labelled diagram
- 1. Organ of Corti.
- 2. Mammalian heart
- 3. Lateral line system of fish
- 4. Human eye

Section- D

Each question carries 6 mark (to be answered within 500 words)

- 1. Compare the Aortic arches in fishes, amphibians and mammals.
- 2. Describe the accessory respiratory organs in fishes.
- 3. Draw a well labeled diagram of the mammalian integument and give an account of its epidermal derivatives.
- 4. Classify the receptors based on their function.

- 5. Discuss the succession of kidney in vertebrates with labelled diagrams.
- 6. Describe the evolution of male and female urinogenital system in reptiles and mammals.
- 7. Draw-well-labeled-diagram-of Brain of bird.
- 8. Illustrate diagrammatically the histological details of the stomach in relation to its functional aspects.
- 9. Explain the structure of gills of cartilaginous and bony fishes.
- 10. Tabulate the fate of visceral arches in vertebrates.
- 11. Discuss the details of succession of kidneys in vertebrates 12. Discuss different types of jaw suspensorium in gnathostomes
- 13. Compare the brain of mammal with that of a reptile.
- 14. Explain different types of integumentary glands in chordates.
- 15. Depict the life cycle of RBC with the help of a flowchart.