2020

Gurudas College ZOOLOGY – HONOURS

Paper: CC- 8 TH Full Marks: 60

Part A

The figures in the margin indicate full marks.

Candidates are required to give their answers in their own words as for as practicable.

Answer *any twenty five* questions from the following:

2x25

Time: 2 hrs. 30 mins.

- 1. What do you mean by Ductus caroticus?
- 2. Distinguish between Aortic arches of birds and mammals.
- 3. Define double circuit heart.
- 4. Why piscian heart is called venous heart?
- 5. What is synsacrum?
- 6. What do you mean by craniostylic jaw suspension?
- 7. Mention the fate of foramen ovale in adult heart.
- 8. Mention two characteristics of anuran aortic arches.
- 9. What do you mean by pygostyle.
- 10. What is bulbus aorta? Write its function.
- 11. Write the differences between stomach of cow and camel.
- 12. Differentiate between Hemibranch & Holobranch.
- 13. Write the role of Air sacs in birds.
- 14. What is head kidney?
- 15. Archinephros type of kidney is found in which group?
- 16. From which part of nephrogenic mesoderm metanephric type of kidney is developed?
- 17. What is clasper?
- 18. What do you mean by opisthonephric kidney?
- 19. In which part of the lungs the gaseous exchange is occurred?
- 20. What is corpus callosum?
- 21. Write the names of the different parts of the forebrain?
- 22. What do you mean by chemoreceptor?
- 23. Write a short note on Cochlear Duct.
- 24. Write a note on the chemical composition of Preen Oil.
- 25. What is the function of Salt Gland in birds?
- 26. State the function of Sebum.
- 27. What are the two principal types of secretary cells present in the mucous glands of amphibian skin?
- 28. How many types of sweat glands are found in mammals? State their names.
- 29. Name two alkaloids with antimicrobial properties found in the cutaneous secretion of amphibians.
- 30. "Mammalian teeth are Thecodont, Diphyodont and Heterodont" Explain.
- 31. What is Diastema? Where is it found?
- 32. Explain Carnassials Apparatus.
- 33. Give the dental formula of human with explanation.
- 34. Write down the water-proofing function of uropygial gland.
- 35. Describe hypsodont teeth with example (diagram not required).

Part B

Internal Assessment

Choose the correct alternative for *any ten* from the following:

1x10

- 1. Bird vertebrae are
- a) Acoelous
- b) Heterocoelous
- c) Amphicoelous
- d) Procoelous
- 2. In adult Sting ray number of aortic arches is
- a) 4 pairs
- b) 3 pairs
- c) 6 pairs
- d) No one above
- 3. The following portion is called Ductus Arteriosus -
- a) Portion of dorsal aorta between third and fourth aortic arches
- b) Distal part of sixth aortic arch between dorsal aorta and the pulmonary artery
- c) Part of fifth aortic arches connected to the pulmonary artery
- d) No one above
- 4. The following compartment is the largest in ruminant stomach of cow -
- a) omasum
- b) abomasum
- c) reticulum
- d) rumen
- 5. The walls of the ventricles possess thick muscular projections, they are known as
- a) Conus arteriosus
- b) Truncus arterosus
- c) Chordae tendineae
- d) Columnae carneae
- 6. The earwax is produced by
- a) Ceruminus gland
- b) Mammary gland
- c) Ciliiary gland
- d) Sudoriporous gland
- 7. Apocrine sweat glands are mostly found at
- a) Armpits and perianal area
- b) Eyelids
- c) Middle ears
- d) Both eyelids and middle ears

- 8. Frog skin commonly contains
- a) Endocrine glands
- b) Exocrine glands
- c) Both exocrine and endocrine glands
- d) Neither exocrine or endocrine glands
- 9. The hardest substance found in vertebrates is
- a) Dentine
- b) Calcium carbonate
- c) Cement
- d) Enamel
- 10. Artiodactyls have
- a) Bunodont teeth
- b) Sectorial teeth
- c) Selenodont teeth
- d) Baleen
- 11. Which of this statement is TRUE for pulmonary respiration?
- a) Exchange of gases between alveoli of lungs and the blood
- b) Exchange of gases between blood and tissue cells
- c) Breathing between the atmosphere and the alveoli of the lungs
- d) Production of ATP
- 12. Each kidney is made up of a large number of excretory units called
- a) Glomerulus
- b) Bowman's Capsule
- c) Nephron
- d) Blood capillaries
- 13. Oviduct in vertebrates is modified
- a) Wolffian duct
- b) Mullerian duct
- c) Inguinal duct
- d) Urinary duct
- 14. Ninth cranial nerve of the vertebrates is
- a) Vagus
- b) Hypoglossal
- c) Facial
- d) Glossopharyngeal
- 15. Organ of Pecten is found in the eye of
- a) Fish
- b) Bird
- c) Snake
- d) Bird