

2022

Zoology

[HONOURS]

(CBCS)

(B.Sc. Third Semester End Examination-2022)

PAPER-C5T

Full Marks: 40

Time: 02 Hrs

The figures in the right hand margin indicate marks

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

Illustrate the answers wherever necessary

- 1. Answer any five questions of the following: 5x2=10**
- a) What do you mean by metamerism?
 - b) Write the characteristics features of sea squirts.
 - c) Write the difference between Lampreys and Hag fish in the following external features
 - i) Dorsal fin
 - ii) Mouth parts.
 - d) State the advanced characters of cyclostomes over Amphioxus.
 - e) What do you mean by cohort?
 - f) What do you mean by pentadactyl limbs?
 - g) What is a carnassial set of teeth? Where they are found?
 - h) What is ductus cuveri? State its function?

(2)

2. Answer any four questions of the following: $4 \times 5 = 20$

- a) Name the distributional significance of the following animals and mention in which realm they belong?
i) sphenodon ii) Reindeer iii) Giraffe iv) Gorilla v) Kangaroo
- b) What is F.M.? Write the theories to explain ecolocation in Bat. $1+4$
- c) Show with a chart the position of man in animal kingdom. Who are cyclostomata? Why they are so called? $2+2+1$
- d) What is the difference between the scale of a fish and that of a reptile? Mention the difference between a notochord and a vertebral column. $2\frac{1}{2} + 2\frac{1}{2}$
- e) Distinguish between physoclistus and physostomous swim bladder. Describe the internal structure of swim bladder in a teleost fish. $1\frac{1}{2} + 3\frac{1}{2}$
- f) What is Hatschek's pit? Enlist the reptilian affinities of prototheria. $1+4$
- g) Give a comparative account of Lacertilia and ophidian. Give an account of the reptilian features of a monotremata. Give the scientific name and distribution of monotremes. $2+1+1+1$

(3)

3. Answer any one question: $1 \times 10 = 10$

- a) What is Aerodynamics and Aerofoil? Write the different force regarding flight mechanism of bird. Describe different modes of flight mechanism of bird. $1+1+4+4$
- b) i) Write briefly on adaptive radiation in mammals with reference to locomotory appendages.
- ii) Write a note on retrogressive metamorphosis. $6+4$
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