

2022

Zoology

[P.G.]

(CBCS)

(M.Sc. First Semester End Examination-2022)

PAPER-101

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

[Use separate Answer Script for each Group]

Group A

Marks 20

(Nonchordates)

- 1. Answer any two questions of the following: 2x2= 4**
- a) Who are lophophorates? 2
 - b) Name any two minor phyla with one example each. 2
 - c) What is larra? Name the larral form of mollusca and echinodermata. 2
 - d) Write important charecters of metazoa (any four). 2
- 2. Answer any two questions of the following: 2x4 = 8**
- a) Write down the difference between protostomes and denterstomes. What is coelome?

(2)

- b) Write down the importance of invertebrate larva. Briefly describe the conservation strategies of invertebrate.
- c) Write down the important characteristics features of Foraminifera. What is the common name of Foraminifera?
- d) Which animal is commonly named as wheel animals? Name any one scientific name of that animal. Mention their characteristics features.

3. Answer any one question of the following: $1 \times 8 = 8$

- a) Write briefly with proper diagram – the feeding mechanism of nematode.
- b) Briefly describe the theories of metazoan origin Add a note on the importance of conservation of invertebrates.

Group – B
Marks 20
(Chordates)

4. Answer any two questions of the following: $2 \times 2 = 4$

- a) Write names of different type of vertebrate kidney. 2
- b) Define chordates. Write two important features of craniates. 2
- c) What is retromirabile? Mention its function. 2
- d) Write diagnostic features of order Cypriniformes. 2

5. Answer any two questions of the following: $2 \times 4 = 8$

- a) What do you mean by protochordates ? Which protochordates are more advanced in evolution and why? 4

(3)

- b) Draw a labelled diagram of endostyle of protochordates. 4
- c) Write down the characteristics features and example of fish order: (i) Siluriformes (ii) Perciformes
- d) Write down the prospects of inland fishery in India. Enlist different problems of marine fisheries in India. 4

6. Answer any one question of the following: $1 \times 8 = 8$

- a) Discuss the mechanism of osmoregulation in marine fishes.
 - b) Give a brief phylogeny of primates with special reference to *Homo Sapiens Sapiens*
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