U.G. 1st Semester Examination - 2019

ZOOLOGY

[HONOURS]

Course Code : ZOOL(H)/CC-01-T

Full Marks : 40 Time : $2\frac{1}{2}$ Hours

The figures in the right-hand margin indicate marks.

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

Answer all the questions.

1. Answer any **five** questions: $2\times5=10$

a) State the function of gastrozooids.

b) What is homonym?

c) Write down the scientific name of portuguese man-of-war and mention the phylum it belongs to.

d) What is mesenchyme?

e) State the role of archeocytes.

f) What do you mean by synapomorphy?

g) Name two enidarian larvae.

h) What is law of priority?

2. Answer any **two** questions: 5×2=10

a) Describe the architecture of Sycon type canal system with suitable diagram. State the role of prosopyle and apopyle. (2+1)+2=5

b) Write a note on miracidium larva. Enumerate the salient features of phylum platyhelminthes. 3+2=5

c) Name the phylum in which 'comb jellies' belong to. State the characteristic features of that phylum. 2+3=5

d) Justify the systematic position of :

i) *Gorgonia* sp.

ii) *Chaetopterus* sp. 2.5+2.5=5

3. Answer any **two** questions: 10×2=20

a) Discuss conjugation in *Paramoecium* sp. with proper diagram. Explain pseudopodia formation with the help of the 'surface tension theory' and 'change of viscosity theory'. (4+2)+(2+2)=10

b) What is atoll? Mention the different types of hydrozoan polyps. Describe the life history of *Obelia* with suitable diagram. 2+3+(3+2)=10

c) Name the causative agent of elephantiasis and mention the definitive host of it. Discuss the

sexual cycle of *Plasmodium vivax* with suitable diagram. Comment on the pathogenicity and control measures of *Ascaris lumbricoides*.

(1+1)+(3+1)+(2+2)=10

d) Enumerate the characteristic features of metazoa. Distinguish between bilateral, radial and biradial symmetries. Classify corals on the basis of structural organization. Give an example of solitary coral. 3+3+3+1=10
