B. Sc DEGREE END SEMESTER EXAMINATION - OCT. 2020 : FEBRUARY 2021
SEMESTER 1 : ZOOLOGY (CORE COURSE)
COURSE : **19U1CRZOO1 : ANIMAL DIVERSITY NON-CHORDATA - 1**
(For Regular - 2020 Admission & Improvement / Supplementary - 2019 Admission)

Time : Three Hours   Max. Marks: 60

PART A
Answer All (1 mark each)

1.   Which type of animals are studied in Arachnology?
2.   The type of symmetry found in the protistan *Volvox* is ....
3.   Define systamatics
4.   Define metagenesis
5.   What does mean by lasso cells?
6.   What is mushroom coral? Give its scientific name
7.   What are glass sponges?
8.   Give any two unique features of Comb jellies

(1 x 8 = 8)

PART B
Answer any 6 (2 marks each)

9.   How experiments are important in science?
10.   What is meant by bilateral symmetry? Give an example
11.   What is syngamy?
12.   Comment on the ecological significance of Diatoms.
13.   How ctenophores are advanced than cnidarians?
14.   How the jet propulsion method work in *Obelia*?
15.   How do you differentiate corals from coral reefs?
16.   How cnidoblasts are different from statocyst?

(2 x 6 = 12)

PART C
Answer any 4 (4 marks each)

17.   Write a description of different types of body symmetry with examples for each type.
18.   Write notes on the classification system used by Aristotle.
19.   How the ciliary movement help locomotion in Paramecium?
20.   Describe the structure of seagooseberry using neat illustrations. Mention its ecological significance
21.   Evaluate how the mechanism of endomixis is done in *Paramecium ?* Add notes on its significance
22.   What are coral reefs? Mention the economic importance

(4 x 4 = 16)

PART D
Answer any 2 (12 marks each)

23.   Describe features of each kingdom as recognized in the five kingdom classification.
24.   Elucidate the anatomy of *Paramecium* using Illustration. Mention the significance of macronucleus.
25.   Discuss the structure and mechanism of metagenesis of an *Obelia* colony. Use neat sketches
26.   How Coelentrates are classified ? Explaiin the defining features and structure using an example

(12 x 2 = 24)