



JAF-003-001324

Seat No. _____

Second Year B. Sc. (Sem. III) (CBCS) Examination

November - 2019

Zoology : Z - 301

(Old Course)

Faculty Code : 003

Subject Code : 001324

Time : $2\frac{1}{2}$ Hours]

[Total Marks : 70

- Instructions :**
- (1) Draw neat and labeled diagram wherever necessary.
 - (2) Figures to the right side indicate full marks for the question.
 - (3) Objective type answers must be written in the same answer-sheet.

1 Answer the following questions : 20

- (1) What is scientific name of Pila ?
- (2) Which phylum is characterized by jointed legs ?
- (3) Which insect have Chewing and Lapping type of Mouth parts ?
- (4) Who discovered the Golgi complex ?
- (5) In which fly, polytene chromosomes are present ?
- (6) Write any one example of Cytoplasmic inheritance.
- (7) In which social insect "Draw" cast found ?
- (8) Write any two examples of Social behaviour.
- (9) Which behaviour is exhibited by Mid-wife-toad ?
- (10) What is name of science which deals with Insects ?
- (11) Which mosquito is responsible to produce Malaria ?
- (12) By which common name Termite is known ?
- (13) What is scientific name of House fly ?
- (14) For which parameter, 'Range' is counted ?
- (15) Pneumonia is caused by _____.
- (16) Under which phylum Octopus is classified ?
- (17) How many segments are present in body of a Leech ?
- (18) What is function of Tube-feet ?
- (19) Write any one example of courtship behaviour.
- (20) How many forms are found in Lysosome ?

- 2 (a) Attempt any **three** out of six : 6
- (1) Classify in short - Aurelia.
 - (2) Explain any two types of Chromosome.
 - (3) Explain short classification of Starfish.
 - (4) Testicular Nephridia.
 - (5) Jaw of Leech.
 - (6) Draw only figure: External character of Pila.
- (b) Attempt any **three** out of six : 9
- (1) Describe Redula of Pila.
 - (2) Explain general characters of Annelida.
 - (3) Write short note on Hemichordata.
 - (4) Explain main characteristics of Mollusca.
 - (5) Classify Phylum Porifera.
 - (6) Write functions of Ribosome.
- (c) Attempt any **two** out of five : 10
- (1) Describe digestive system of Pila.
 - (2) Explain Nerve system of Leech.
 - (3) Draw classification chart with two examples.
 - (4) Classify - Clypeaster.
 - (5) Describe in short Tuberculosis.
- 3 (a) Attempt any **three** out of six : 6
- (1) Write about Standard Error.
 - (2) Explain only - cast type in Termite.
 - (3) What is Parental Care ?
 - (4) What is control of Wheat weevil ?
 - (5) What is Variability ?
 - (6) What are nucleosides ?
- (b) Attempt any **three** out of six : 9
- (1) Explain types of RNA.
 - (2) Describe Life cycle of Lepisma.
 - (3) What is morphology (characters) of Tse-Tse fly ?
 - (4) Parental care in Mid-wife-toad.
 - (5) Courtship in Scorpion.
 - (6) Describe Osphradium in Pila.
- (c) Attempt any **two** out of five : 10
- (1) Mouth parts of Honey bee.
 - (2) Explain Biological Control of insects.
 - (3) Cytoplasmic inheritance.
 - (4) Describe Structure and function of Lysosome.
 - (5) Write a note on Standard deviation with example.