



PBB-003-1013020

Seat No. _____

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

November / December - 2018

Zoology : Paper - Z - 03

(New Course)

Faculty Code : 003

Subject Code : 1013020

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 (a) Objective type questions : 4
(1) Which animal is connecting the phylum Annelida and Arthropoda ?
(2) What is meaning of the term 'Metazoa' ?
(3) Which phylum has been classified under 'Parazoa' ?
(4) Write any two examples of Phylum Mollusca.
- (b) Answer in brief : (any 1 out of 2) 2
(1) Explain characteristics of class Hydrozoa with its example.
(2) Explain characteristics of class Turbellaria with its example.
- (c) Answer in detail : (any 1 out of 2) 3
(1) Write salient features of Phylum Arthropoda.
(2) Describe characteristics of Phylum Annelida.
- (d) Write a note on : (any 1 out of 2) 5
(1) Classify with causes and characteristics : Loligo
(2) Classify with causes and characteristics : Feather star.

- 2** (a) Objective type questions : **4**
- (1) In which segment of Leech, Anus is located ?
 - (2) Which type of mouth parts are found in Mosquito ?
 - (3) What is scientific name of Leech ?
 - (4) How many types of Canals are found in Sponge ?
Which are ?
- (b) Answer in brief : (any 1 out of 2) **2**
- (1) Explain Salivary gland in Leech.
 - (2) Draw labeled figure of Honey bee mouth parts.
- (c) Answer in detail : (any 1 out of 2) **3**
- (1) Describe any type of canal system in Sponge.
 - (2) Draw labeled figure - Digestive system of Leech.
- (d) Write a note on : (any 1 out of 2) **5**
- (1) Explain Reproductive system of Leech.
 - (2) Describe Siphoning type of Mouth parts in
Insects with its example.
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- 3** (a) Objective type questions : **4**
- (1) By whom discover Golgi complex ?
 - (2) How many types are found in Ribosome ? Which
are ?
 - (3) Which gland is call as 'Supra renal gland' ?
 - (4) In which organ, Bowman's Capsules are found ?
- (b) Answer in brief : (any 1 out of 2) **2**
- (1) Draw only neat and labeled figure of Centriole.
 - (2) Explain functions of Golgi body.
- (c) Answer in detail : (any 1 out of 2) **3**
- (1) Types of Lysosome.
 - (2) Function of Adrenal Gland.
- (d) Write a note on : (any 1 out of 2) **5**
- (1) Explain histological structure of Pituitary gland.
 - (2) Describe Ribosome.

- 4 (a) Objective type questions : 4
- (1) Which casts are found in social behavior of Honey-
bee ?
 - (2) By which common name Alytes is known ?
 - (3) Which harmful effect is caused by Tse-Tse fly ?
 - (4) In how many types Insect Pest Management has
been divided ?
- (b) Answer in brief : (any 1 out of 2) 2
- (1) Explain prevention of Rice weevil.
 - (2) Describe damage by Wheat weevil.
- (c) Answer in detail : (any 1 out of 2) 3
- (1) Describe Courtship behavior in Spider.
 - (2) Describe Social behavior in Termite.
- (d) Write a note on : (any 1 out of 2) 5
- (1) Describe Silver fish as harmful insect.
 - (2) Explain Prenatal Care Behavior.
- 5 (a) Objective type questions : 4
- (1) Which instrument is used for measuring the amount
of hemoglobin ?
 - (2) Where the Vansda National Park is located ?
 - (3) In which state of India Asiatic lions are found ?
 - (4) In India, where the Snow Leopard is found ?
- (b) Answer in brief : (any 1 out of 2) 2
- (1) Write brief note on Pyramids of Number.
 - (2) Write principle of Hemoglobinometer.
- (c) Answer in detail : (any 1 out of 2) 3
- (1) Shoolpaneswar Wild Life Sanctuary.
 - (2) Write short note on Wild life depletion.
- (d) Write a note on : (any 1 out of 2) 5
- (1) Discuss the Slender Loris as threatened wild
animal.
 - (2) Velavadar National Park.