



JAG-003-1013020

Seat No. _____

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

November - 2019

Zoology : Z - 03

(New Course)

Faculty Code : 003

Subject Code : 1013020

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

[Total Marks : 70

- Instructions :**
- (1) Draw neat and labelled diagrams 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) Under which class Chalina has been classified ?
 - (2) In which phylum 'Jointed appendages' is main character ?
 - (3) Under which phylum and class, Aurelia has been classified ?
 - (4) Under which Phylum, class Cephalopoda has been classified ?
- (b) Answer in brief : (any 1 out of 2) 2
- (1) Explain characteristics of class Holothuroidea with its example.
 - (2) Describe any one example of Phylum Porifera.
- (c) Answer in detail : (any 1 out of 2) 3
- (1) Write salient features of Phylum Mollusca.
 - (2) Describe characteristics of Phylum Annelida.
- (d) Write a note on : (any 1 out of 2) 5
- (1) Classify with causes and characteristics: Peripatus.
 - (2) Classify with causes and characteristics: Enterobius.

- 2** (a) Objective type questions : **4**
- (1) In Leech, where the Intestine is located ?
 - (2) In which sponge Lucon type of Canal system is present ?
 - (3) What is scientific name of Leech ?
 - (4) Write any one example of Chewing and Lapping type of Mouth parts.
- (b) Answer in brief : (any 1 out of 2) **2**
- (1) Explain Jaw in Leech.
 - (2) Draw labelled figure of Mosquito mouth parts.
- (c) Answer in detail : (any 1 out of 2) **3**
- (1) Draw labelled figure - Male Reproductive system of Leech.
 - (2) Describe Mouth parts of Honey bee.
- (d) Write a note on : (any 1 out of 2) **5**
- (1) Explain digestive system of Leech.
 - (2) Describe Nerve system of Leech.
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- 3** (a) Objective type questions : **4**
- (1) Which hormone is secreted from Thyroid gland ?
 - (2) Who discovered the Ribosome ?
 - (3) Which organ is filtering-organ in the body ?
 - (4) Who discovered the Golgi complex ?
- (b) Answer in brief : (any 1 out of 2) **2**
- (1) Draw only labelled figure of Golgi complex.
 - (2) Explain functions of Ribosome.
- (c) Answer in detail : (any 1 out of 2) **3**
- (1) Explain types of Ribosome.
 - (2) Describe functions of Pituitary gland.
- (d) Write a note on : (any 1 out of 2) **5**
- (1) Describe Lysosome.
 - (2) Describe histological structure of Adrenal gland.

- 4 (a) Objective type questions : 4
- (1) By which name, Mid-wife-toad is known ?
 - (2) In which social insect 'Drawn' cast is found ?
 - (3) Which disease is caused by Tse-Tse fly ?
 - (4) Name the insect, which produce Chirping sound ?
- (b) Answer in brief : (any 1 out of 2) 2
- (1) Explain damage by Silver fish.
 - (2) Explain prevention and control of House fly.
- (c) Answer in detail : (any 1 out of 2) 3
- (1) Describe Courtship behavior in Scorpion.
 - (2) Describe Social behavior in Honey bee.
- (d) Write a note on : (any 1 out of 2) 5
- (1) Describe Wheat Weevil as harmful insect.
 - (2) Explain Parental Care behavior with example.
- 5 (a) Objective type questions : 4
- (1) How many national parks are present in Gujarat ?
 - (2) What is scientific name of Tiger ?
 - (3) Under which category of IUCN, Slender Loris is included ?
 - (4) Which Biotic component is called as Autotrophic component ?
- (b) Answer in brief : (any 1 out of 2) 2
- (1) Explain Pyramids of Energy.
 - (2) Write principle of Haemoglobinometer.
- (c) Answer in detail : (any 1 out of 2) 3
- (1) Describe Shoolpaneshwar Wild life Sanctuary.
 - (2) Write note on Ratanmahal Sloth Bear Sanctuary.
- (d) Write a note on : (any 1 out of 2) 5
- (1) Write note on Vansda National Park.
 - (2) Write note on Great Indian Bustard.