



HCV-003-1013020 Seat No. _____
Second Year B. Sc. (Sem. III) (CBCS)
(W.I.F. 2016) Examination
October / November – 2017
Z-03 : Zoology : Paper - III

Faculty Code : 003
Subject Code : 1013020

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

[Total Marks : 70

- Instructions :** (1) Illustrate your answer with neat and labelled diagrams.
(2) Figures to the right side indicate full marks of the question.

- 1 (a) Objective type question : 4
- (1) Any two characters of class Insecta.
 - (2) Which type of asexual reproduction occur in protozoa ?
 - (3) Any two example of class Nematoda.
 - (4) Balanoglossus belongs to which Phylum ?
- (b) Answer in brief : (Any one out of two) 2
- (1) Any four characters of Phylum Porifera
 - (2) Any four characters of Class Arachnida.
- (c) Answer in detail : (Any one out of two) 3
- (1) Classify Star fish with reasons
 - (2) General characters of Phylum Coelenterata.
- (d) Write a note on (Any one out of two) 5
- (1) General characters and classification up to class of phylum Annelida.
 - (2) General characters and classification up to class of phylum Mollusca.

- 2** (a) Objective type question : **4**
- (1) Leech belongs to which Class ?
 - (2) Scientific name of Leech.
 - (3) Name the animal which has chewing and lapping type of Mouth parts.
 - (4) Any two economic importance of Sponge.
- (b) Answer in brief : (Any one out of two) **2**
- (1) Describe copulation in Leech
 - (2) Draw labeled diagram of ascanoid type of canal system.
- (c) Answer in detail : (Any one out of two) **3**
- (1) Character of Peripatus as a connecting link between Annelida and Arthropoda.
 - (2) Chewing and Biting type Mouth parts.
- (d) Write a note on : (Any one out of two) **5**
- (1) Digestive system of Leech with diagram.
 - (2) Reproductive system of Leech with diagram.
- 3** (a) Objective type question : **4**
- (1) Which is the main function of Ribosome ?
 - (2) Who discovered Golgi bodies ?
 - (3) Which hormone is secreted by Thyroid ?
 - (4) Which gland is known as master gland in human beings ?
- (b) Answer in brief : (Any one out of two) **2**
- (1) Draw labeled diagram of centrioles.
 - (2) Any two functions of Thyroids.

- (c) Answer in detail : (Any one out of two) **3**
- (1) Describe Nephron with diagram
 - (2) Describe Lysosome
- (d) Write a note on : (Any one out of two) **5**
- (1) Describe Golgi complex
 - (2) Histology of Adrenal gland.
- 4** (a) Objective type question : **4**
- (1) Name the insects which damage stored grains.
 - (2) Which disease occurred by Tse-Tse fly ?
 - (3) What is the function of Drones ?
 - (4) Which house hold goods are damage by silver fish ?
- (b) Answer in brief : (Any one out of two) **2**
- (1) Describe control measures of Mosquito.
 - (2) Describe Prevention measures of Cabbage butterfly.
- (c) Answer in detail : (Any one out of two) **3**
- (1) Courtship behavior in Spider and Scorpion.
 - (2) Describe House fly as an affecting human health.
- (d) Write a note on : (Any one out of two) **5**
- (1) Social behavior of Termite
 - (2) Describe Parental care with example.
- 5** (a) Objective type question : **4**
- (1) In which district Velavadar National Park is situated ?
 - (2) Name any two threatened mammals
 - (3) Define : Ecology
 - (4) Use of Haemoglobinometer.

- (b) Answer in brief : (Any one out of two) **2**
- (1) Chart of energy flow in terrestrial ecosystem.
 - (2) Principle of Phase contrast microscope.
- (c) Answer in detail : (Any one out of two) **3**
- (1) Reasons for depletion of wild life
 - (2) Any two threatened Birds
- (d) Write a note on : (Any one out of two) **5**
- (1) Vansda National Park
 - (2) Ecological Pyramids.
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