



Seat No. _____

HAK-003-1013020
B. Sc. (Sem. III) (CBCS)
(W.E.F. 2016) Examination
May - 2023
Zoology : Paper - Z - 03

Faculty Code : 003
Subject Code : 1013020

Time : $2\frac{1}{2}$ / Total Marks : 70

Instruction:

- (1) Draw neat and labeled diagram wherever necessary.
- (2) Figures to the right side indicate full marks for the question.
- (3) Attempt all the five questions.

- 1 (A) Answer the following questions in short : **4**
1. In which phylum jointed appendages is main character?
 2. Obelia is belongs to _____ phylum.
 3. How many are arms found in Loligo?
 4. What is the common name of Dentalium?
- (B) Answer any one out of two : **2**
1. Classify: Brittle star.
 2. Write any four characters of phylum Protozoa.
- (C) Answer any one out of two : **3**
1. Name three classes of phylum Coelenterata with characters.
 2. Write any six characters of Hemichordata.
- (D) Answer any one out of two : **5**
1. Describe phylum Mollusca with its class and examples: -
 2. Draw classification chart of Non chordate with its class and examples.

- 2 (A) Answer the following questions in short : 4
1. Rectum is situated in _____ segment in Leech.
 2. _____ type of mouth parts are found in Mosquito.
 3. The scientific name of Leech is _____.
 4. Intestine is located in segment Number _____ in Leech.
- (B) Answer any one out of two : 2
1. Write a note on jaws of Leech.
 2. Explain Ascon type of canal system in Leech.
- (C) Answer any one out of two : 3
1. Explain chewing & lapping type of mouth parts.
 2. Explain copulation and cocoon formation in Leech.
- (D) Answer any one out of two : 5
1. Describe digestive system in Leech.
 2. Describe nervous system in Leech.
- 3 (A) Answer the following questions in short : 4
1. Adrenalin is secreted by _____ gland.
 2. Who has coined the term Chromosome?
 3. Metanephric type of kidney is found in _____.
 4. Lysosomes are involved in _____.
- (B) Answer any one out of two : 2
1. Explain types of Ribosomes.
 2. Explain the function of Golgi complex.
- (C) Answer any one out of two : 3
1. Explain the structure of Lysosome.
 2. Explain the structure of adrenal gland.
- (D) Answer any one out of two : 5
1. Explain histological structure of Pituitary gland.
 2. Explain the structure & function of Centrioles and Basal bodies.

- 4 (A) Answer the following questions in short : 4
1. Tse-Tse fly cause _____ disease.
 2. Copulation of royal couple of termites occurs in _____.
 3. Termites also known as _____.
 4. Malaria and Dengue caused by _____.
- (B) Answer any one out of two : 2
1. Name the insects damaging food products.
 2. Describe social behavior.
- (C) Answer the following question : 3
1. Describe types of eggs based on amount of yolk.
 2. Describe caste system of honey-bee
- (D) Answer any one out of two : 5
1. Describe in detail biological control of pest.
 2. Describe parental care with examples.
- 5 (A) Answer the following questions in short : 4
1. The Vansda national park is situated in _____ district of Gujarat.
 2. _____ is the state bird of Rajasthan.
 3. How many national parks are there in Gujarat.
 4. Sphygmomanometer measures _____.
- (B) Answer any one out of two : 2
1. What is Detritus ?
 2. Explain: Ecosystem
- (C) Answer any one out of two : 3
1. Write a note on Black Nilgiri Langur.
 2. Describe pyramid of bio-mass.
- (D) Answer any one out of two : 5
1. Explain Velavadar Blackbuck national park.
 2. Explain Haemoglobinometer.