



PBB-003-001324

Seat No. _____

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

November / December - 2018

Zoology : Paper - Z - 301

(Old Course)

Faculty Code : 001

Subject Code : 001324

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

[Total Marks : 70

- Instructions :** (1) Draw neat and labeled diagram if necessary
(2) Figures to the right side indicate full marks of the questions.

1 Answer in short :

20

- (1) Give the name of the phylum of animal Nereis.
- (2) Which nitrogen base is absent in DNA ?
- (3) Give the scientific name of Pila.
- (4) Give two examples of purine type nitrogen base.
- (5) In which animal cell the Golgibody is absent.
- (6) Loligo belongs to which phylum ?
- (7) Which chromosome type, centromere is at middle position ?
- (8) Tse - tse fly is responsible for disease _____.
- (9) Which organelley is known as Suicidal bag.
- (10) Which animal's larva is having polytene chromosome?
- (11) From which segments the clitellum is present in Lumbricus ?
- (12) Give causes of disease Pneumonia.
- (13) The main function of Ribosome is _____.
- (14) What is kappa particles ?
- (15) Spider belongs to which class ?

- (16) The main function of Malpighian tubules are _____.
- (17) Give any two causes of Swine flu.
- (18) Give wheat weevil measuring about length and width ?
- (19) How many eggs are laid in a day by Honey bee queen ?
- (20) Give any two causes of disease Tuberculosis.

- 2 (a) Explain any **three** : **6**
- (1) Classify the animal Amoeba reason not necessary.
 - (2) Chewing and Lapping type (Honey bee) mouth parts.
 - (3) Siphoning type (Butterfly) mouth parts.
 - (4) What is nucleotide ? Explain in brief.
 - (5) Damaging the food products Rice weevil.
 - (6) Describe Silver fish (damage and control).
- (b) Explain any **three** : **9**
- (1) Find the Range and Co-efficient of Range the following data.
100, 200, 300, 400, 500, 600, 700, 800, 900
 - (2) Sex determination in Drosophila.
 - (3) Describe Termite - damaging house hold.
 - (4) General characters of phylum Arthropoda.
 - (5) Symptoms of Swine flu.
 - (6) Control of human health affecting House fly.
- (c) Explain any **two** : **10**
- (1) Describe Cytoplasmic inheritance with Kappa particle in Paramecium.
 - (2) Types of Chromosomes according to centromere.
 - (3) Alimentary canal Digestive system of Pila, draw labeled diagram only.
 - (4) Explain Golgi complex.
 - (5) Describe Parental care in chordates with examples.

3 (a) Explain any three : 6

(1) Find out the Standard error of the following results :

Total (N) = 9 and Standard Deviation (SD) = 2

(2) Control of human health affecting Tse tse fly.

(3) Damaging the food products Wheat weevil.

(4) Sponging type (House fly) mouthparts.

(5) Give the characters of class Rhizopoda / Sarcodina.

(6) General characters of phylum Coelenterata.

(b) Explain any three : 9

(1) Notes on Lysosome.

(2) General characters of phylum Echinodermata.

(3) Structure of Polytene chromosome.

(4) Symptoms of Tuberculosis.

(5) Symptoms of Pneumonia.

(6) Find out Standard deviation (SD) of the following data.

Animal	1	2	3	4	5	6	7	8	9
Length	3	5	6	2	4	1	1	2	3

(c) Explain any two : 10

(1) Explain Social behavior in Honey bee.

(2) Neat and clean labeled diagram of Alimentary canal / Digestive system of Leech.

(3) Describe AIDS.

(4) Notes on Ribosome.

(5) Courtship and reproductive behavior in general.