



BBC-003-001113

Seat No. _____

B. Sc. (Sem. I) (CBCS) Examination

July - 2021

Zoology : Paper - 101

(English Medium)

(Old Course)

Faculty Code : 003

Subject Code : 001113

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.

1 Answer the following question in short : **20**

- (1) Name the classes of the phylum Annelida
- (2) Peripatus belongs to class
- (3) Write only classification of 'Starfish.
- (4) Liver Changes ammonia into _____ by ornithine cycle.
- (5) Female genital pore is situated on the _____ Segment of the ventral side.
- (6) Lateral hearts are situated on the _____ and _____ segment in earthworm
- (7) _____ is the secondary host of tapeworm.
- (8) Which organelle is generally referred to as 'power house of the cell?
- (9) ER usually is present in almost every cell except Mammalian
- (10) Which layer of the stomach has Villi?
- (11) The outermost layer of the stomach is _____
- (12) Which hormone is secreted by alpha cells of pancreas?

- (13) When range of migration of birds lies on opposite sides, the equator, it is called as _____ migration.
- (14) The American golden plover travels about _____ km during migration.
- (15) Barada wild sanctuary is located at _____
- (16) Name biotic factors of fresh water eco system.
- (17) Gryllotalpa is an example of _____ Adaptation.
- (18) Where does suprapharyngeal ganglia located in the nervous system of an earthworm?
- (19) Which sanctuary is known as the heaven of migratory birds?
- (20) Change the place of aquatic birds caused by ocean tides is known as _____ migration.

2 (A) Answer any **three** of the following questions : **6**

- (1) Classify Euspongia (reasons not needed).
- (2) Explain triploblastic animals.
- (3) Draw labeled diagram of Animal cell.
- (4) Describe ventral view of earthworm.
- (5) Explain photo-receptors in earthworm.
- (6) Explain eggs of Anopheles mosquito.

(B) Answer any **three** of the following questions : **9**

- (1) Write the characters of class Amphineura of phylum Mollusca.
- (2) Draw a labeled diagram of mature Proglottid
- (3) Describe septa nephridia in earthworm.
- (4) Explain larval stage of Culex.
- (5) Explain the types of Endoplasmic Reticulum.
- (6) Explain chemical constitution of the skeletal muscle.

- (C) Answer any **two** of the following questions : **10**
- (1) Describe male and female mouth parts of Anopheles mosquito.
 - (2) Describe digestive system of earthworm.
 - (3) Write characters of Phylum Anthrapoda
 - (4) Describe Strobilia in tapeworm.
 - (5) Draw a non chordate chart with suitable examples.
- 3** (A) Answer any **three** of the following questions : **6**
- (1) Explain abiotic factors in fresh water ecosystem.
 - (2) Explain Decomposers.
 - (3) Write the purposes of desert adaptation.
 - (4) Write any four conservation values of Marine National Park.
 - (5) Describe lunar migration.
 - (6) Classify Feather star.
- (B) Answer any **three** of the following questions : **9**
- (1) Explain Cysticercus larva of tapeworm.
 - (2) Explain blood gland in earthworm.
 - (3) Describe body wall of earthworm.
 - (4) Explain flora and fauna of Nalsarovar bird sanctuary.
 - (5) Describe habitat and conservation value of Khijadia bird sanctuary
 - (6) Explain basic Principle and Significance of forensic Science.
- (C) Answer any **two** of the following questions : **10**
- (1) Explain copulation and cocoon formation in earthworm.
 - (2) Describe Gir national Park.
 - (3) Describe histological structure of stomach.
 - (4) Explain Fossorial adaptation with suitable example.
 - (5) Explain Plasma membrane with its function.