

D 11882

(Pages : 2)

Name.....

Reg. No.....

**THIRD SEMESTER (CUCBCSS—UG) DEGREE EXAMINATION
NOVEMBER 2021**

Zoology

ZOL 3C 03—PHYSIOLOGY, TOXICOLOGY AND ETHOLOGY

(2014—2018 Admissions)

Time : Three Hours

Maximum : 64 Marks

Part AI. One Word Questions. Answer *all* questions. Each question carries 1 mark :

- 1 Head of the phospholipids are _____ in nature.
- 2 Dietary fibre is found in the _____ parts of cereals, fruits and vegetables.
- 3 Absorption of nutrients takes place in _____.
- 4 Haemostasis is the body's normal physiological response for the prevention and stopping of _____.
- 5 Thrombosis is the formation of a blood clol within _____.
- 6 _____ side of the kidney preferred for kidney transplantation.
- 7 Glial cells are located in _____.
- 8 Malathion is the _____ insecticide.
- 9 _____ behaviors are closely controlled by genes with little or no environmental influence.
- 10 _____ can be defined as a response of an organism to the timing and duration of light and dark.

(10 × 1 = 10 marks)

Part BII. Short Answer Questions. Answer any *seven* questions. Each question carries 2 marks :

- 11 What are the components of plasma membrane ?
- 12 Give any two importance of fibre in food.

Turn over

- 13 Give the difference between agglutination and coagulation.
- 14 Define nephritis and its causes.
- 15 Define Myofilament.
- 16 Define neurotransmitters with example.
- 17 Write the Health effects of carbon monoxide from automobiles.
- 18 Give the symptoms of arsenic poisoning.
- 19 Define Habituation behavior in animals with examples.
- 20 What is circadian rhythms ?

(7 × 2 = 14 marks)

Part C

III. Paragraph Questions. Answer any *four* questions. Each question carries 5 marks :

- 21 Explain the fluid mosaic model of plasma membrane.
- 22 Explain in detail about the structure and functions of respiratory pigment in human beings.
- 23 Give a brief account on mechanism of muscle contraction.
- 24 Give a brief account on MRI scanning.
- 25 Give a brief account on toxicity mechanism of mercury.
- 26 Give the difference between innate and learned behavior.

(4 × 5 = 20 marks)

Part D

IV. Essay Questions. Answer any *two* questions. Each question carries 10 marks :

- 27 Describe in detail about the Passive and active mechanism of membrane transport.
- 28 Give an detailed account on structure and functions of heart with neat sketch.
- 29 Describe in detail about the different types of neurotransmitter and their functions.
- 30 Describe in detail about the history, scope and branches of ethology.

(2 × 10 = 20 marks)