



K22U 2342

Reg. No. :

Name :

**V Semester B.Sc. Degree (CBCSS – OBE – Regular/Supplementary/
Improvement) Examination, November 2022
(2019 Admission Onwards)
CORE COURSE IN ZOOLOGY
5B06 ZLG : Animal Physiology**

Time : 3 Hours

Max. Marks : 40

Instructions : Give illustrations and figures wherever necessary.

- I. Essay questions (**Each** question carries **8** marks). Answer any **two**.
- 1) Explain Nerve Impulse transmission along a nerve fibre.
 - 2) Enumerate blood clotting factors. Briefly explain the extrinsic and intrinsic pathways of blood coagulation.
 - 3) Describe the physiology of Urine formation.
 - 4) Describe various phases and hormonal control of Menstrual cycle in human female.
- II. Short essay questions (**Each** question carries **4** marks). Answer any **two**.
- 5) Explain Hypothalamus as an endocrine gland.
 - 6) Describe neural and chemical control of Respiration.
 - 7) Explain various steps in Ornithine cycle.
- III. Short answer questions (**Each** question carries **2** marks). Answer any **six**.
- 8) Explain Donnan equilibrium.
 - 9) Explain Homeostasis.
 - 10) Explain Balanced diet.
 - 11) What is Lymph ? Write its functions.
 - 12) Explain All or none law.
 - 13) Write a note on Neurotransmitters.
 - 14) What is Brown fat ? Write its physiological importance.
 - 15) Explain Hypoxia.

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IV. Multiple choice questions (**Each** question carries **0.5** marks). Answer **all**.

- 16) Which one of the following is not a connective tissue ?
a) Muscle b) Blood c) Bone d) Cartilage
- 17) Protein deficiency in food causes
a) Kwashiorkor b) Hypertension
c) Anorexia d) Diarrhoea
- 18) The last menses with which menstrual flow stops is
a) Menarche b) Menopause c) Andropause d) Gestation
- 19) Pace maker of human heart is
a) AV node b) SA node c) Bundle of His d) Purkinje fibres
- 20) Conversion of ammonia to urea takes place in the organ
a) Liver b) Kidney c) Pancreas d) Muscle
- 21) The chemical reaction involved in digestion is known as
a) Hydration b) Hydrolysis c) Oxidation d) Reduction
- 22) Renin is produced in
a) Liver b) Kidney c) Pancreas d) Muscle
- 23) Leydig cells are present in
a) Ovary b) Testis c) Pancreas d) Kidney