



K24U 2772

Reg. No. :

Name :

V Semester B.Sc. Degree (CBCSS – OBE – Regular/Supplementary/
Improvement) Examination, November 2024
(2019 to 2022 Admissions)
CORE COURSE IN ZOOLOGY
5B06ZLG : Animal Physiology

Time : 3 Hours

Max. Marks : 40

Instruction : Give **illustrations** and figures **wherever** necessary.

- I. Essay questions (**Each** question carries **8** marks). Answer **any two**. (**2×8=16**)
- 1) Give an account on muscle proteins.
 - 2) Describe various phases and hormonal control of menstrual cycle in human female.
 - 3) Explain different types of synaptic transmission of impulses.
 - 4) Give an account on the digestion of carbohydrates and proteins in man.
- II. Short essay questions (**Each** question carries **4** marks). Answer **any two**. (**2×4=8**)
- 5) Describe the histological organization of mammalian ovary.
 - 6) Explain hypothalamus as an endocrine gland.
 - 7) Describe neural and chemical control of respiration.
- III. Short answer questions (**Each** question carries **2** marks). Answer **any six**. (**6×2=12**)
- 8) Write note on the importance of dietary fibres.
 - 9) Explain Haldane effect.
 - 10) Name four hormones produced by the placenta.
 - 11) Write note on neurotransmitters.

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- 12) Comment on brown fat.
 - 13) Write down the functions of lymph.
 - 14) Describe gastrointestinal hormones.
 - 15) Comment on juxta glomerular apparatus.
- IV. Multiple choice questions (**Each** question carries **0.5** marks.) Answer **all**. (**8×0.5=4**)
- 16) The corpus luteum is an endocrine structure in
a) Testis b) Ovary c) Uterus d) Pituitary
 - 17) One molecule of hemoglobin can transport up to
a) Four molecules of oxygen b) Two molecules of oxygen
c) Five molecules of oxygen d) One molecule of oxygen
 - 18) Which one of the following is a protein deficiency disease ?
a) Kwashiorkor b) Scurvy
c) Obesity d) Diarrhoea
 - 19) Factor IX in the blood clotting process is
a) Hageman factor b) Christmas factor
c) Stuart-Prower factor d) Antihemophilic factor
 - 20) Intercalated disc is present in
a) Cardiac muscle b) Skeletal muscle
c) Smooth muscle d) Striated muscle
 - 21) The articular cartilage at the ends of bones is
a) Elastic b) Hyaline c) Fibrous d) Calcified
 - 22) A natural anticoagulant is
a) Albumin b) Heparin c) Globulin d) Fibrinogen
 - 23) Which one of the following has ATPase activity ?
a) Actin b) Myosin c) Troponin d) Tropomyosin