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PSG COLLEGE OF ARTS & SCIENCE

(AUTONOMOUS)

BSc DEGREE EXAMINATION DECEMBER 2022

(Fifth Semester)

Branch - ZOOLOGY

PHYSIOLOGY

Maximum: 75 Marks Time: Three Hours **SECTION-A (10 Marks)** Answer ALL questions ALL questions carry EQUAL marks $(10 \times 1 = 10)$ Which enzyme digests the protein in the stomach? (ii) Trypsin (i) Pepsin (iv) Amylase (iii) Chymotrypsin The disaccharides are broken down into monosaccharide byenzyme 2 (ii) Pepsin (i) Lipase (iv) Maltases (iii) Bile Which organ is used for the cutaneous respiration? 3 (ii) Heart (i) Gills (iv) Lungs (iii) Skin About 55% of human blood constitute of..... 4 (ii) Erythrocyte (i) Plasma (iv) Thrombocytes (iii) Monocyte The functional unit of mammalian kidney is..... 5 (ii) Medula (i) Cortex (iii) Nephron (iv) Urinary Bladder Which of the following is a ureotelic animal 6 (ii) Adult frog Scorpion (iv) House lizard (iii) Pigeon The liver of human is made by..... muscle 7 (ii) Circular (i) Smooth (iv) Cardiac (iii) Skeletal The tympanic membrane is also called 8 (ii) Eardrum (i) Ossicular chain (iv) Pinna (iii) Auricle Which neurons deliver electrical signals from the outer parts of the body to CNS? 9 (ii) Motor (i) Inter (iv) Sensory (iii) Receptor Which gland controls the metabolism of your body? 10 (ii) Pineal Thyroid (iv) Adrenal (iii) Hypothalamus

SECTION - B (35 Marks)

Answer ALL Questions

ALL Questions Carry EQUAL Marks

 $(5 \times 7 = 35)$

- 11 a How the protein digestion takes place in the stomach of man?
 - b Describe the methods of absorption of digested food in human.
- Bring out the functions of respiratory pigments with special reference to haemoglobin.

OR

- b Explain the process of cardiac cycle in man.
- 13 a Highlight the importance of lymphatic system in animals.

OR

- b Describe the ultra structure of mammalian kidney with a neat diagram.
- 14 a Elucidate the structure of human ear with diagram.

OR

- b Explain the mechanism of image formation.
- 15 a Describe the ultra structure of neuron with a neat sketch.

OR

b What is reflex action? Explain with suitable example.

SECTION - C (30 Marks)

Answer any THREE Questions

ALL Questions Carry EQUAL Marks $(3 \times 10 = 30)$

- Describe the process of β oxidation in detail.
- 17 Elucidate the composition of human blood.
- Explain the mechanism of urine formation in man.
- 19 Movement of bone by the contraction of skeletal muscle justify the statement.
- Why the pituitary gland is called master of endocrine discuss it.

Z-Z-Z

END