

PSG COLLEGE OF ARTS & SCIENCE
(AUTONOMOUS)

BSc DEGREE EXAMINATION DECEMBER 2023
(Fifth Semester)

Branch – ZOOLOGY

PHYSIOLOGY

Time: Three Hours

Maximum: 50 Marks

SECTION-A (5 Marks)

Answer ALL questions

ALL questions carry EQUAL marks

(5 x 1 = 5)

- 1 Saliva helps in digestion of.....
(i) Protein (ii) Starch
(iii) Fats (iv) Fibre
- 2 The respiratory system of Grass hopper is.....
(i) Skin (ii) Gills
(iii) Lungs (iv) Book lungs
- 3 Which of the following is an ammonotelic organism?
(i) Bony fishes (ii) House lizard
(iii) Scorpion (iv) Pigeon
- 4 The photoreceptors of eye are known as
(i) Rods and Cones (ii) Retina and Cones
(iii) Cornea and Rods (iv) Retina and Cornea
- 5 The electrical signals from CNS deliver byto the outer parts of the body.
(i) Motor neuron (ii) Inter neuron
(iii) Sensory neuron (iv) Receptor neuron

SECTION - B (15 Marks)

Answer ALL Questions

ALL Questions Carry EQUAL Marks

(5 x 3 = 15)

- 6 a Explain the buccal cavity digestion in man.
OR
b Describe the role stomach in protein digestion.
- 7 a Bring out the functions of blood pigment haemoglobin in man.
OR
b Draw and label parts of the human heart.
- 8 a What is ureotelism? Explain with suitable example.
OR
b Describe the process of ammonia formation.
- 9 a Describe the structure of human eye with a neat diagram.
OR
b Explain the mechanism of hearing.
- 10 a What is reflex action?
OR
b Describe the ultra structure of neuron with a neat sketch.

Cont...

SECTION -C (30 Marks)

Answer **ALL** questions

ALL questions carry **EQUAL** Marks

(5 x 6 = 30)

- 11 a Elucidate the process of β -oxidation in detail.
OR
b Explain how the hormones controls the digestion in human.
- 12 a Summarize the process of gas transport in man.
OR
b Elucidate the composition of human blood.
- 13 a Enumerate the functions of lymphatic system in human.
OR
b Bring out the process of urine formation in man.
- 14 a Contraction of skeletal muscle moves the bone- Justify.
OR
b Discuss the types of muscle present in human.
- 15 a Give an account on thyroid gland and state its importance.
OR
b How the nerve impulse conducted in human body? Explain the mechanism of conduction.

Z-Z-Z

END