

PSG COLLEGE OF ARTS & SCIENCE
(AUTONOMOUS)

BSc DEGREE EXAMINATION MAY 2024
(Fifth Semester)

Branch – BIOCHEMISTRY

DISCIPLINE SPECIFIC ELECTIVE – I : PHYSIOLOGY AND ENDOCRINOLOGY

Time: Three Hours

Maximum: 50 Marks

SECTION-A (10 Marks)

Answer ALL questions

ALL questions carry EQUAL marks (5 x 1 = 5)

- Oxygen dissociation curve will shift to right on decrease of _____
 - temperature
 - acidity
 - pH
 - carbon dioxide concentration
- The reason why the right kidney is slightly lower than the left is
 - the left kidney is bigger than right
 - considerable space occupied by the heart
 - considerable space occupied by the liver on the right side
 - the right kidney is bigger than the left
- Which of the following is another name for the third ventricle of the brain?
 - diocoel
 - paracoel
 - rhinocoel
 - metacoel
- Action of parathormone in the human body
 - decreases blood sodium level
 - increases blood sodium level
 - decreases blood calcium level
 - increases blood calcium level
- What is the name of the cells producing the hormone in adrenal medulla?
 - F cells
 - Chief cells
 - Principal cells
 - Chromaffin cells

SECTION - B (35 Marks)

Answer ALL Questions

ALL Questions Carry EQUAL Marks (5 x 3 = 15)

6. a. List out important role of GI tract hormone.

OR

- b. Give a concept of chloride shift.

7. a. Write short note o micturition.

OR

- b. Give an account on electrocardiogram.

8. a. Write a introduction of skin.

OR

- b. Illustrate about visual cycle.

9. a. What are hypothalamic factors? Explain.

OR

- b. Write short note on gigantism.

10. a. Give a disorders of insulin.

OR

- b. Discuss the biosynthesis of melatonin.

Cont...

SECTION - C (30 Marks)

Answer ALL Questions

ALL Questions Carry EQUAL Marks

(5 x 6 = 30)

11. a. Discuss the composition, structure and deficiency of hemoglobin.
OR
b. Enumerate the digestive process of various regions of digestive system.
12. a. Explain the structure and conduction system of heart.
OR
b. Evaluate the mechanism of muscle contraction.
13. a. Derive the composition and functions of CSF.
OR
b. Elaborately discuss structure and functions of nervous system.
14. a. Describe the syndrome of inappropriate ADH secretion.
OR
b. Elucidate the biosynthesis and biological action of thyroid hormone.
15. a. Enumerate the biological effects and biosynthesis of adrenal gland.
OR
b. Discuss the disorders of female reproductive glands.

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