

PSG COLLEGE OF ARTS & SCIENCE
(AUTONOMOUS)
BSc DEGREE EXAMINATION DECEMBER 2017
(Fourth Semester)
Branch - **ZOOLOGY**
PHYSIOLOGY

Time : Three Hours

Maximum : 75 Marks

SECTION-A (20 Marks)Answer **ALL** questions**ALL** questions carry **EQUAL** marks (10 x 2 = 20)

- 1 What is transamination?
- 2 Name the hormones involved in digestion.
- 3 Write the names of respiratory pigments.
- 4 Define cardiac cycle.
- 5 Write down the names of secondary lymphatic organs.
- 6 What is ammonotelism?
- 7 Classify the muscles based on fiber appearance.
- 8 What are rod cells?
- 9 Define reflex action.
- 10 Name the hormones secreted by the gonads in human.

SECTION - B (25 Marks)Answer **ALL** Questions**ALL** Questions Carry **EQUAL** Marks (5 x 5 = 25)

- 11 a Explain the role of hormones involved in digestion?
OR
b Describe the process of oxidative deamination.
- 12 a Describe the structure of human lungs.
OR
b Write a brief account on the chambers of the human heart.
- 13 a Comment on uricotelism with reference to eco-physiological adaptability.
OR
b Describe the structure and functions of thymus.
- 14 a Write a brief account on the types of muscles.
OR
b Explain the mechanism of hearing.
- 15 a How is the nerve impulse transmitted across synapse?
OR
b Insulin and glucagon are antagonistic, Why?

SECTION - C (30 Marks)Answer any **THREE** Questions**ALL** Questions Carry **EQUAL** Marks (3 x 10 = 30)

- 16 Write a detailed account on *p* - oxidation.
- 17 Explain the events of blood clotting.
- 18 Emphasize the important functions of lymphatic system that contribute to Homeostasis.
- 19 Describe the anatomy of human eye.
- 20 List the principal endocrine glands and hormones they secrete.

Z-Z-Z**END**