

**PSG COLLEGE OF ARTS & SCIENCE  
(AUTONOMOUS)**

**BSc DEGREE EXAMINATION JUNE 2014  
(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 Write the role of carboxypeptidases.
- 2 What is gluconeogenesis?
- 3 Name any four animal groups in which haemoglobin is present.
- 4 What is blood pressure?
- 5 What is lymph?
- 6 What do you mean by ureotelism?
- 7 Write about myofibrils.
- 8 What is iodopsin and rhodopsin?
- 9 Define action potential.
- 10 What are tropic hormones?

**SECTION - B (25 Marks)**

Answer **ALL** Questions

**ALL** Questions Carry **EQUAL** Marks (5 x 5 = 25)

- 11 a Give an account of the phases of gastric juice secretion.  
OR
- b Comment on the electron transport system.
- 12 a Write a note on coronary circulation.  
OR
- b Describe the oxygen dissociation curve.
- 13 a Compare the osmoregulatory process in freshwater and marine teleosts.  
OR
- b Write a note on Ornithine cycle.
- 14 a Draw a neat labeled diagram of human eye.  
OR
- b Write a brief note on mechanism of hearing.
- 15 a Describe the structure of a neuron.  
OR
- b What is chronobiology? Comment on the endogenous rhythms.

**SECTION - C (30 Marks)**

Answer any **THREE** Questions

**ALL** Questions Carry **EQUAL** Marks (3 x 10 = 30)

- 16 Explain the Krebs's cycle.
- 17 Explain the structure of human heart with a neat labeled diagram. Add a note on cardiac cycle.
- 18 Describe the process of urine formation in man.
- 19 Give an account of the ultra structure of skeletal muscle.
- 20 What is a nerve impulse? Give an account of the origin and propagation of nerve impulse along a non-myelinated nerve fibre.

Z-Z-Z

END