

PSG COLLEGE OF ARTS & SCIENCE
(AUTONOMOUS)

BSc DEGREE EXAMINATION DECEMBER 2018
(Fifth Semester)

Branch - **BIOCHEMISTRY**

CORE ELECTIVE -1 PHYSIOLOGY & ENDOCRINOLOGY

Time : Three Hours

Maximum : 75 Marks

SECTION-A (20 Marks)

Answer **ALL** questions

ALL questions carry **EQUAL** marks (10 x 2 = 20)

- 1 Mention the buffer system present in human body.
- 2 What is anaemia?
- 3 List out the functions of heart.
- 4 Mention the muscle proteins and its functions.
- 5 What are the roles of axon?
- 6 Comment the properties of Nerve fibres.
- 7 What are the hypo function of adrenal cortex?
- 8 What is Graves disease?
- 9 Mention the endo crine glands present inhuman body.
- 10 Name the hormones which control the function of overie.

SECTION - B (25 Marks)

Answer **ALL** Questions

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

- 11 a Explain the composition of blood and its functions.
OR
b Write a note on gastro intestinal hormones.
- 12 a Brief out the cardiac cycle.
OR
b Explain the role of renal regulation of acid base balance.
- 13 a What is rhodospin cycle? Explain.
OR
b List out the functions of various neuro transmitters.
- 14 a How hormones are classified based on structure?
OR
b Describe the synthesis of thyroid hormones.
- 15 a Explain the biosynthesis of melatonin.
OR
b Outline the deficiency symptoms of adrenal cortical hormones.

SECTION - C (30 Marks)

Answer any **THREE** Questions

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

- 16 Elaborate the process of blood coagulation.
- 17 Explain the mechanism of muscle contraction.
- 18 Discuss on the C.S.F composition and its functions.
- 19 Describe the role of parathyroid hormone in the regulation of calcium level.