PSG COLLEGE OF ARTS & SCIENCE (AUTONOMOUS)

BSc DEGREE EXAMINATION DECEMBER 2017

(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

 $(10 \times 2 = 20)$

- 1 Define Bohr's effect.
- 2 Write a note on composition and function of blood.
- 3 List out muscle proteins and its functions.
- 4 Draw neet diagram of nephron and its function.
- 5 Write a note on neurotransmitters.
- 6 Discuss about photo pigments.
- 7 List out second messengers and its role (functions).
- 8 Write the structure and function of CAMP.
- 9 List the hormones of Hypothalamus.
- 10 Enumerate on the functions of testis.

SECTION - B (25 Marks)

Answer ALL Questions

ALL Questions Carry EQUAL Marks $(5 \times 5 = 25)'$

11 a Explain the components of respiratory systems and their function.

OR

b Write an account on the blood clotting mechanisms.

3 2 a Explain the acid - base regulation by kidney's.

OR

b Explain the mechanism of muscle contraction.

13 a Elaborate the receptor mechanisms of the eye,

OR

b Discuss on synaptic transmission.

14 a White a short notes on general mechanism of hormone action.

OR

- b Describe the biosynthesis of thyroid hormone with its abnormalities.
- 15 a Describe the chemistry mechanisms of action and role of MSH.

OR

b Enumerate the functions of testis.

SECTION - C (30 Marks)

Answer any **THREE** Questions

ALL Questions Carry EQUAL Marks $(3 \times 10 = 30)$

- 16 Write an essay on the composition and functions of digestive juices.
- 17 Write an account on the mechanism of urine formation.
- 18 Out line the composition and function of CSF.
- 19 Discuss the role of second messengers in normal action.
- 20 Explain in detail about pituitary hormones and their function.

END