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# PSG COLLEGE OF ARTS & SCIENCE

(AUTONOMOUS)

## **BSc DEGREE EXAMINATION MAY 2019**

(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 What is respiration?
- 2 Mention the principle of absorption of carbohydrate by small intestine.
- 3 Draw the structure of nephron and give its functions.
- 4 What is QRST ventricular complex?
- 5 Name the inhibitor of neuro transmitters.
- 6 How the neurons classified based on their functions?
- 7 List out the hormones released from pancreas.
- 8 What is goitre?
- 9 Define menstrual cycle.
- Name the function of relaxin.

### **SECTION - B (25 Marks!**

Answer **ALL** Questions

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

11 a Explain blood grouping and add a note on Rh factors.

OF

- b Write a note on (i) Bohr's effects (ii) Chloride shift.
- 12 a Write an account on muscle proteins.

OR

- b Discuss on the electro cardiogram.
- 13 a Explain the synapatic function and its role.

OR

- b Draw the structure and functions of eye.
- 14 a Explain the mechanism of action of thyroid hormones.

OR

- b Describe the patho physiology of pancreas hormones.
- 15 a Discuss on the functions of Ovary.

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b Focus on function and secretion of hypothalamous hormone.

### **SECTION - C (30 Marks)**

Answer any **THREE** Questions

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

- How is  $0_2$  carried from lungs to different tissues?
- 17 Describe the mechanism of urine formation.
- Explain the mechanism of cholinergic transmission on CNS.
- Brief out various second messengers and its actions.
- 20 Discuss on the secretion, functions of adeno hypophysis hormones.