

BSc DEGREE EXAMINATION MAY 2017

(Fifth Semester)

Branch - **BIOCHEMISTRY**

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 enterokinase in digestion process.
- 2 Name the gastrointestinal hormones.
- 3 Define micturition.
- 4 What are the types of muscles?
- 5 Mention the classification of neurons.
- 6 What are neurotransmitters? Give examples.
- 7 Write any two important role of adenylate cyclase.
- 8 Write about the secretions of thyroid gland. -
- 9 Mention any two important functions of pineal gland.
- 10 Write about the disorders due to hyperactivity of testis.

SECTION - B (25 Marks)

Answer **ALL** Questions

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

- 11 a Write a short note on body buffers.
OR
b Describe the composition of blood.
- 12 a Describe cardiac cycle.
OR
b Write briefly on renal regulation of acid-base balance.
- 13 a' Describe the structure of neuron.
OR
b Explain the composition and functions of CSF.
- 14 a Explain the classification of hormones.
OR
b Write a short note on second messengers, »
- 15 a Discuss the functions of pituitary gland.
OR
b Explain the disorders of hyper and hypo activity of hypothalamus.

SECTION - C (30 Marks)

Answer any **THREE** Questions

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

- 16 Describe the mechanism of blood coagulation.
- 17 Explain the mechanism of muscle contraction.
- 18 Discuss the initiation and transmission of nerve impulse.
- 19 Describe the functions, secretions and pathophysiology associated with hyper and hypo secretion of pancreas.
- 20 Explain the functions, secretions and disorders due to hyper and hypo activity of ovaries.