



DBX-1603120102020500 Seat No. _____

M. Sc. (Biochemistry) (Sem. II) (CBCS) Examination

July - 2022

CBC-5 : Human Physiology & Endocrinology

Time : $2\frac{1}{2}$ Hours]

[Total Marks : 70

1 Answer briefly any Seven of the following questions : **14**

- (a) How hormonally GFR get regulated ?
- (b) Give note on cardiac output.
- (c) Briefly write about metabolic acidosis.
- (d) Give composition of gall bladder secretion.
- (e) What is peptic ulcer ? What are the causes for it ?
- (f) Differentiate between efferent and afferent neurons.
- (g) What is chemical synapse ? Brief with example.
- (h) Write note on sarcoplasmic reticulum.
- (i) Brief introduction about motor unit.
- (j) What is the effect of growth hormone on glucose metabolism.

2 Answer any Two of the following questions : **14**

- (a) Write note on oxygen transportation.
- (b) Define blood pressure. Write about systolic and diastolic blood pressure.
- (c) Explain in brief about neuromuscular junction.

3 (a) Write note on synthesis and secretion of thyroid hormone. **7**

(b) Write note about cardiac cycle. **7**

OR

(a) How small intestine play important role in digestion and absorption process. **7**

(b) How breathing movement of respiratory system get regulated ? **7**

- 4 Answer the following questions : 14
- (a) Discuss about different phases of gastric secretion.
 - (b) Write a detailed note about sarcomere.
- 5 Answer the following questions : (any two) 14
- (a) Write a note on naturally occurring buffer system of the body for maintenance of acid and base balance.
 - (b) Role of hormones in digestion.
 - (c) What is estrogen ? Discuss its synthesis and functions.
 - (d) Classify hormone on the basis of their chemical nature.
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