



JBV-21259

Seat No. _____

First Year B. D. S. Examination

January - 2020

General Human Physiology

(Biochemistry, Nutrition and Dietetics)

Time : **3 Hours**]

[Total Marks : **70**

- Instructions :** (1) Write each section in separate answer book.
(2) Draw figure wherever necessary.
(3) Figures on right indicate marks.
(4) Attend all the question.

SECTION - I

- 1 Describe synthesis, secretion, transport and mechanism of action of Thyroid hormones. **10**

OR

- 1 Define pain. Describe types and pathways of pain. **10**

- 2 Write Short Notes : (Any **Two**) **10**

- (a) Plasma proteins
(b) Lung compliance
(c) Heart sound.

- 3 (A) Write Short Notes : (Any **Two**) **10**

- (a) Composition and functions of saliva
(b) Menstrual Cycle
(c) Glomerular Filtration Rate.

- (B) Answer in one sentence : (Any **Five**) **5**

- (a) What is 'milieu interieur' ?
(b) Define Action potential.
(c) What is presbyopia ?
(d) What is stroke volume ?
(e) What is pulse pressure ? What is its significance?
(f) What is isotonic contraction ?

SECTION - II

- 4 Describe briefly : (Any **Two**) **10**
(a) Coenzyme activity of Vitamin B complex
(b) Acute phase proteins and its clinical application
(c) Factors affecting Enzyme activity
- 5 Write Short Notes : (Any **Two**) **10**
(a) Calcium and Phosphate homeostasis
(b) Explain blood sugar regulation in our body.
(c) Phenylketonuria
- 6 (A) Write Short Notes : (Any **Two**) **10**
(a) Ketone body formation and utilization
(b) Post transcriptional modification
(c) Phospholipids
- (B) Answer the following : (Any **Five**) **5**
(a) Give biological importance of insulin and inulin.
(b) What is incomplete protein?
(c) What is Oncofetal antigen?
(d) Why LDL is bad cholesterol?
(e) Enumerate the pH regulating system in our body.
(f) Mention name of physiological uncouplers in our body.
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