



HAF-21259

Seat No. _____

First Year B. D. S. Examination
June / July – 2017
General Human Physiology &
Biochemistry, Nutrition & Dietetics

Time : 3 Hours]

[Total Marks : 70

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

SECTION – I (General Human Physiology)

- 1 Define Haemostasis. Enumerate the coagulation factors and 10 describe fibrinolytic system with its physiological importance.

OR

- 1 Define cardiac output and write a note on regulation and 10 different methods of measurement of cardiac output.

- 2 Short Notes : (Any Two) 10

- (a) Action Potential
(b) Counter Current Multiplier Mechanism
(c) Lung Compliance

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

- (a) Corticospinal Tract
(b) Referred Pain
(c) Visual Pathway

- (B) Answer in One Sentence : (Any Five) 5

- (a) What is the mechanism of action of ADH?
(b) What is Cretinism?
(c) What is the rhythm method of contraception?
(d) What is resting membrane potential?
(e) What is chyme? How is it formed?
(f) What is sensory unit?

SECTION – II (Biochemistry, Nutrition & Dietetics)

- 4 Describe Briefly : (Any Two) 10**
- (a) Fat Soluble Vitamins
 - (b) Diabetes Mellitus: Types, Clinical Features, Complications and Management
 - (c) Urea Cycle and Its Regulation.
- 5 Short Notes : (Any Two) 10**
- (a) Hemoglobinopathies
 - (b) Albumin: Functions and Deficiency Manifestations
 - (c) TCA Cycle and its Regulation.
- 6 (A) Write Short Notes : (Any Two) 10**
- (a) Risk Factors for Atherosclerosis
 - (b) Digestion and Absorption of Carbohydrates
 - (c) Functions of Phospholipids.
- (B) Answer the following : (Any Five) 5**
- (a) Difference between DNA and RNA
 - (b) Importance of IgE
 - (c) Examples of Cardiac Biomarkers
 - (d) Difference between Inulin and Insulin
 - (e) Name the Storage and Transport Form of Iron
 - (f) Examples of Essential Fatty Acids.
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