



MJ-21259

Seat No. _____

First Year B. D. S. Examination

January - 2018

General Human Physiology

Time : 3 Hours]

[Total Marks : 70

SECTION - I
(General Human Physiology)

- 1** Discuss functions and dysfunctions of cerebellum. **10**
OR
Enumerate anterior pituitary hormones. Discuss functions and dysfunctions of Growth hormone
- 2** Write short notes on : (any two) **10**
(a) Cell membrane
(b) Juxtaglomerular apparatus
(c) Neuro muscular junction.
- 3** (3.1) Write short notes on : (any two) **10**
(a) Cell mediated immunity
(b) Errors of Refraction
(c) Functions of pancreatic juice.
(3.2) Answer in one sentence : (any five) **5**
(a) Why cardiac muscle can not be tetanized ?
(b) Why LH surge is necessary for ovulation ?
(c) What is the cause of production of 1st and 2nd heart sound ?
(d) What is cardiac Index ?
(e) What is milk ejection reflex ?
(f) What is bell magendie law ?

SECTION - II
(Biochemistry, Nutrition & Dietetics)

- 4 Describe Briefly : (Any Two) 10
- (a) Watson-Crick Model of DNA Structure
 - (b) Phenylketonuria
 - (c) Renal Regulation of Blood pH
- 5 Short Notes : (Any Two) 10
- (a) Deficiency Manifestations of Vitamin A & Vitamin D
 - (b) Regulation of Blood Calcium Level
 - (c) Risk Factors of Atherosclerosis.
- 6 (6.1) Write Short Notes : (Any Two) 10
- (a) Digestion & Absorption of Lipids
 - (b) Structure of Immunoglobulins
 - (c) Explain Enzyme Inhibition with Suitable Examples
- (6.2) Answer the following : (Any Five) 5
- (a) What is Denaturation of Proteins ?
 - (b) Name Important Cardiac Markers.
 - (c) What is Physiological Jaundice ?
 - (d) What is the difference between Inulin & Insulin ?
 - (e) Functions of Albumin.
 - (f) Examples of Polyunsaturated Fatty Acids (PUFAs).
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