



RD-0201852

Seat No. _____

First Year B. P. T. Examination
February - 2019
Human Physiology & Biochemistry

Time : 3 Hours]

[Total Marks : 80

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

SECTION - I (55 Marks)

- 1 Long answers : (Any Two) 20**
(1) What is Hemostasis? Describe blood coagulation process in detail.
(2) What is cardiac cycle? Describe events during cardiac cycle in detail.
(3) Describe structure and functions of cerebellum in detail.
- 2 Write Short Notes : (Any Four) 20**
(1) Excitation-contraction coupling of skeletal muscle
(2) Properties of cardiac muscle
(3) Micturition
(4) Mechanism of Gastric secretion
(5) Errors of refraction
- 3 Write Short Answers : (Any Five) 15**
(1) Functions of Saliva
(2) Facilitated Diffusion
(3) Heart sounds
(4) Physiological causes of Leucocytosis
(5) Acromegaly
(6) Difference between Upper motor neuron paralysis and lower motor neuron paralysis.

SECTION - II (25 Marks)

- 4** Long Answer : (Any **One** out of Two) **10×1=10**
- (a) Explain Urea cycle with its regulation and disorders.
 - (b) Classify compound lipids and explain phospholipids in detail.
- 5** Short Answer : (Any **One** out of Two) **5×1=5**
- (a) Describe Fluid mosaic model
 - (b) Calcium and Phosphate homeostasis
- 6** Very Short Answer : (Any **Five** out of Six) **2×5=10**
- (a) Clinical significance of bilirubin
 - (b) RNA - types and its function
 - (c) Acute phase proteins
 - (d) Explain pellagra
 - (e) Role of vitamin C in collagen formation
 - (f) HDL is a good cholesterol
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