



G-131002

Seat No. _____

Bachelor of Physiotherapy (Sem. I) Examination

March / April – 2019

BPTOC102 : Human Physiology - I

Time : 3 Hours]

[Total Marks : 80

- Instructions :** (1) Answer should be brief and to the point.
(2) Illustrate answer with suitable diagrams.
(3) Figures to the right indicate full marks.

SECTION - I

- 1 Long Answer : (Any One out of Two) 1×15=15**
- (a) Define erythropoiesis. Describe stages and factors affecting it.
 - (b) Describe various events occurring during a cardiac cycle.
- 2 Short Answer : (Any Three out of Four) 3×5=15**
- (a) Homeostasis
 - (b) Cell membrane
 - (c) Functions of Lymphocytes
 - (d) Active transport
- 3 Very Short Answer : (Any Five out of Seven) 5×2=10**
- (a) Why SA node is the pacemaker of the heart?
 - (b) Functions of Platelets
 - (c) Landsteiner's Law
 - (d) Normal values of Blood pressure
 - (e) Osmosis and its applications
 - (f) Secondary active transport
 - (g) Frank Starling's Law.

SECTION - II

- 4** Long Answer : (Any **One** out of Two) **1×15=15**
- (a) Describe nervous regulation of respiration.
 - (b) Describe functions of Gluco-corticoids.
- 5** Short Answer : (Any **Three** out of Four) **3×5=15**
- (a) Deglutition
 - (b) Functions of Saliva
 - (c) Oxygen hemoglobin dissociation curve
 - (d) ADH
- 6** Very Short Answer : (Any **Five** out of Seven) **5×2=10**
- (a) Hypoxia & its types
 - (b) Muscles of Inspiration
 - (c) Disorders of Growth hormones
 - (d) Functions of Aldosterone
 - (e) Explain the term choleretics & cholegogue
 - (f) Name secretions of parietal cell of stomach
 - (g) Explain peristalsis.
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