

P P SAVANI UNIVERSITY

First Semester of B. P.T. Examination

February-March 2020

SPPT 1020 Human Physiology I

02.03.2020, Monday

Time: 09:00 a.m. To 12:00 p.m.

Maximum Marks: 70

Instructions:

1. The question paper comprises of two sections.
2. Section I and II must be attempted in separate answer sheets.
3. Make suitable assumptions and draw neat figures wherever required.
4. Use of scientific calculator is allowed.

SECTION - I

- Q - 1 Essay Question(Any One) [10]**
- (i) Describe in detail Anemia.
- (ii) Write in detail about Blood Indices and functions of Blood.
- Q - 2 Short Note(Any Two) [10]**
- (i) Counter current mechanism
- (ii) Dehydration
- (iii) GFR
- Q - 3 Very Short Notes(Any Five) [15]**
- (i) Composition of ECF
- (ii) ESR
- (iii) Summation
- (iv) Rheobase
- (v) Wallerian degeneration
- (vi) Juxta Medullary Nephrons
- (vii) Mast Cell

SECTION - II

- Q - 1 Essay Question(Any One) [10]**
- (i) Write down the causes of different Heart sounds and brief their characteristics.
- (ii) Explain in detail about the Mechanics of Respiration.
- Q - 2 Short Note(Any Two) [10]**
- (i) Intra-pleural and Intra-alveolar pressure changes during normal respiration.
- (ii) Pulmonary function test.
- (iii) Transport of Carbon dioxide.
- Q - 3 Very Short Notes(Any Five) [15]**
- (i) Alveolar ventilation
- (ii) Ventilation Perfusion ratio
- (iii) Draw a neat diagram of Respiratory membrane
- (iv) Cardiac Output
- (v) Short term regulation of Blood pressure
- (vi) Phases of cardiac cycle
- (vii) End systolic and End Diastolic volume
