

Sem 1-BL-3

2019#1

P P SAVANI UNIVERSITY

First Semester of B.P.T. Examination
January 2022

SPPT1020 HUMAN PHYSIOLOGY I

07.01.2022, Friday

Time: 09:30 a.m. To 12:30 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) Action Potential.
(ii) Structure of Nephron and process of urine formation.

Q - 2 (a) Short Note(Any Two) [10]
(i) Smooth muscle: Structure and types.
(ii) Structure and function of cell.
(iii) Plasma and its composition.

Q - 3 Very Short Notes(Any Five) [15]
(i) Lymphatic circulations.
(ii) ESR.
(iii) Write about function of cell membrane.
(iv) Classification of Skeletal Muscle.
(v) Explain: Motor unit with diagram.
(vi) Structure of Neuron.
(vii) Indications of blood transfusion.

SECTION - II

Q - 1 Essay Question(Any One) [10]
(i) Explain conducting system of heart with neat diagram.
(ii) Spirometry.

Q - 2 (a) Short Note(Any Two) [10]
(i) Arterial Blood Pressure: Definition, normal value and its variations.
(ii) Explain: Cardiac Cycle.
(iii) Write about Mechanism of Breathing.

Q - 3 Very Short Notes(Any Five) [15]
(i) Write about Coronary Circulation.
(ii) Write about muscle of respiration.
(iii) V/Q Ratio and its importance.
(iv) Write about Heart Sounds.
(v) Shock:- Definition and causes
(vi) Write about Cardiac Output
(vii) What is Pleura? Write about its types and functions.
