P P SAVANI UNIVERSITY

First Semester of B. P.T. Examination July 2021

SPPT1020 Human Physiology I Time: 10 a.m. To 1:00 p.m.

08.07.2021, Thursday

Maximum Marks: 70

	Time: 10 a.m. To 1:00	p.m. Maximum Marks: 70
1. Th	e question paper comprises of two sections.	
3. Ma	ction I and II must be attempted in separate answer sheake suitable assumptions and draw neat figures wherever	ets. er required.
	SECTION - I	
Q - 1	Essay Question(Any One)	[10]
(i) (ii)	Define and Describe in detail cardiac cycle widescribe pressure changes in ventricles	ith appropriate diagram and graphs &
()	Define Action potential. Draw graph. Describe severity adventage and works	eral stages of it. Write about myelination,
	its advantage and mechanism of it.	
Q-2	Short Note(Any Two)	Trans.
(i)	Describe in details about lung Mechanics.	[10]
(ii)	Fluid Compartments and distribution	
(iii)	JGA	
Q-3	V Cl.	
(i)	Very Short Notes (Any Five)	[15]
	Enlist Properties of Skeletal muscle	
(ii)	Define Resting Membrane Potential, Mention the Io	n Responsible for it, Value of RMP in
(III)	Skeletal Muscle	
(iii)	Define: A) Chronaxie and Rheobase with Graph	
(iv)	B) Motor Unit	
	Myelination. Definition and Advantages with diagra	m.
(v)	Functions of 1) ADH	
6-22	2) Aldosterone.	
(vi)	Examples of Positive Feedback Mechanisms	
(vii)	Define – A) Homeostasis	
	D) CEP	

	SECTION - II	
Q-1	Essay Question(Any One)	[10]
(i)	What is erythropoiesis? Write down its different stages.	
(ii)	Define cardiac output & describe factors affecting it.	
Q - 2	Short Note(Any Two)	[10]
(i)	Describe in detail about Oxygen Hemoglobin Curve and factors causing shifting to Right	
(ii)	Osmoregulations by ADH.	-0
(iii)	Blood Clotting Pathway in details.	0
Q - 3	Very Short Notes(Any Five)	[15]
(i)	Pacemaker of 1) Heart	[13]
	2) Respiration	
(ii)	Define: A. End Systolic Volume B. Ejection fraction. C. Stroke Volume	
(iii)	Surfactant: Function, mechanism, and Name.	
(iv)	Functions of plasma Protiens	
(v)	Functions of Kidney	
(vi)	What is Rouleaux Formation.	
(vii)	Value: A) Normal RBC Count	
	B) Normal Hb	60
	C) Normal WBC Count	