QP Code : 27237

(3 Hours)

Total marks-80

N.B.:	(1) Solve any four questions out of six questions.	
	(2) Assume data wherever required.	
	(3) Figures to the right indicate full marks.	
	(4) Use legible handwriting.	
١.	 (a) What is Monosynaptic Reflex arc. (b) Nernst Equation for K+ ion. (c) What is Surfactant. (d) What is Fick's principle ? 	5 5 5 5
2.	(a) Explain Cardiac Output in detail and the factors that affect Cardiac Output.	10
	(b) Explain in detail the Sliding Filament Theory.	10
3.	(a) Describe the formed elements in blood and its functions. Also comment on Blood Group	\$ 10
	(b) Explain the parts of the Brain, Generation of Cerebrospinal fluid and its functions.	10
4.	(a) Explain in detail ECG waveform, also explain the Lead system	10
	(b) Explain the various Endocrine glands, their secretion and function	10
5.	(a) .What are Ascending tracts? Comment on any one ascending tract	10
	(b) What is Spirometry? Explain the various Lung volumes and Capacities	10
6.	Write short note (any four)	20
	 (a) Functions of Golgi Apparatus and Mitochondria (b) Systemic and Pulmonary Circulation (c) Active Transport Mechanism (d) Fluid Mozaic Model (e) Cardiac Arrhythmias 	