

BR 5003

First Year MBBS Examination

I MBBS Physiology Paper 1

Time: 3 hours Max Marks: 50

Instructions: 1. Answer to the points. 2. Figure to the right indicates marks. 3. Use separate answer books for each section. 4. Draw diagrams wherever necessary. 5. Write legibly.

Section 1

1. Explain in detail: (any two) (10)
 - a. Functions of plasma proteins (A.59) (8.95)
 - b. Mechanism of platelet plug formation (A.125) (8.153)
 - c. Functions of saliva (A.225) (B.739)
2. A. Write brief notes on (any two) (6)
 - a. Functions of Liver
 - b. Importance of 'G protein' as 1st Messenger
 - c. Erythropoiesis and factors affecting it

(A.74) (B.108)

3. 8. Write brief on (any one) (3)
 - a. Action potential with its various phases
 - b. Properties of cardiac muscle (A.525) (B.180)
4. Give brief on (any two) (6)
 - a. Exocrine functions of pancreas
 - b. Absorption of lipids in small intestine
 - c. Regulation of secretion of Gastric juice (A.232) (8.466)

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Section 2

1. Explain in detail (any two) (10)
 - a. Define cardiac cycle. Explain in detail all the events of cardiac cycle given pressure & volume changes in each. (A.534) (B.179)
 - b. Define blood pressure and discuss Nervous mechanism for regulation of blood pressure.
 - c. How Respiratory regulated and discuss Nervous regulation of respiration.(A.716) (8.336)
 2. 5A.Write briefly on (any two) (6)
 - a. Factors affecting heart rate
 - b. Hypoxia (A-756) (8.352)
 - c. ECG
 3. 58.Write briefly on (any one) (3)
 - a. Oxygen hemoglobin dissociation curve
 - b. Bainbridge Reflex (A.620)
 4. 6.Write answers to the point in 2-3 sentences: (6)
 - a. Define Landsteiner's Law (A.139) (8.165)
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- b. Define motor unit (A.202) (8.75)
- c. Why blood does not clot in the blood vessels
- d. Name the neurotransmitter release at release at ganglion of autonomic nervous system
- e. Lysosomes are "Garbage Disposal" of cell (A.9) (8.10)
- f. Define all or none law (A-555)
- g. What is Achlorhydria
- h. Why cardiac muscle cannot be tetanized
- i. Why Anaemia develops after gastrectomy
- j. Why Bradycardia is seen in athletes
