

MK 16803

First Year MBBS Examination

I MBBS Physiology Paper 1

Time: 3 hours Date: 07-06-2018 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) Define "milieu interior" Explain various mechanism of homeostasis
 - b) Intrinsic mechanism of coagulation. Write note on anticoagulant used in vitro.
 - c) Write in detail about differences between smooth muscle and skeletal muscle.
- 2A. Write brief notes on (any two) (6)
 - a) Peptic ulcer
 - b) Swallowing reflex and achalasia cardia
 - c) Stages of erythropoiesis
- 2B. Write brief on (any one) (3)
 - a) Active transport across cell membrane
 - b) What are immunoglobulin? Give its

classification

3. Give brief on (any two) (6)
 - a) "Negative feedback mechanism of homeostasis.
 - b) "Refractory period". What is the importance of long refractory period in cardiac muscle action potential?
 - c) Composition and functions of Bile.

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Section 2

4. Explain in detail (any two) (10)
- a) Role of baroreceptors in blood pressure regulation.
 - b) ECG changes in myocardial infarction
 - c) Lung compliance
- 5A. Write briefly on (any two) (6)
- a) Mechanism of inspiration
 - b) Coronary blood flow
 - c) Heat regulation in human body.
- 5B. Write briefly on (any one) (3)
- a) Left ventricular pressure changes in cardiac cycle
 - b) Transport of carbon dioxide in blood
