

Date: 12-06-2017

AF 3463

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) Na⁺K⁺Pump (A.34) (8.21)

b) Humoral Immunity (A.112) (B.139)

c) Excitation Contraction coupling (A.194)
(8.73, 179)

2A. Write brief notes on (any two) (6)

- a) Functions of saliva (A.225) (8.739)
- b) Facilitated diffusion (A.31) (B.17)
- c) Functions of plasma protein (A.59) (8.95)

2B. Write brief on (any one) (3)

- a) Differences between Red muscle & Pale muscle
- b) Contents of pancreatic juice (A.246) (8.482)

3. Give brief on (any two) (6)

- a) Factors affecting erythropoiesis (A.74) (B.108)
- b) Myasthenia Gravis (A.212) (B.65)
- c) Gastric emptying (A.274) (8.475)

Section 2

4. Explain in detail (any two) (10)

- ~~a) Compliance of lungs (A.719) (8.307)~~

b) Stages of cardiac cycle (A.534) (B.179)

c) Mechanism of heat loss from body (A.371)
(B.961)

5A. Write briefly on (any two) (6)

a) Lung volumes and capacities (A.690) (8.301)

b) Heat block

c) Effect of sympathetic stimulation on heart
and blood vessels. (A.458)

5B. Write briefly on (any one) (3)

a) Cyanosis (A.763) (8.354)

b) Stages of shock (A-684)

6. Short explanatory objective questions: (6)

a) Define homeostasis (A.38)

b) Define Landstener's law

c) Enumerate properties of nerve fibre (A.766)
(8.58)

- d) Enumerate gastrointestinal hormones
- e) Hypercapnia
- f) Reynold's number
- g) Shell and core temperature
- h) Differences between active and passive transport
- i) Enumerate stages of delegation
- j) Hering Breuer reflex (A.750) (8.340)

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