

M-1099

M. B. B. S. (First Professional) Examination, 2008

PHYSIOLOGY

Paper First

Time : Three Hours

Max. Marks : 50

Note : Attempt all questions. All questions carry equal marks.

Q1. Describe :

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(a) Regulatory mechanisms to maintain arterial blood pressure in normal range.

(b) Normal duration, voltage and significance of <sup>all</sup> the ~~the~~ waves, segments and intervals recorded in Electrocardiogram.

Q2. Write Functions of :

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(a) Basal Ganglia

(b) Wernicke's and Broca's area

Q3. Compare and contrast in :

10

(a) Cortical and Juxtamedullary Nephrons

(b) Thin and Thick ascending Limb of Loop of Henle.

P.T.O.

Q4. Write mechanism of :

10

- (a) Hearing
- (b) Color - vision

Q5. Draw well labelled, colored, neat diagrams only : 10

- (a) White blood corpuscles
- (b) Process of cell - mediated immunity.

M-1100

M. B. B. S. (First Professional) Examination, 2008

PHYSIOLOGY

Paper Second

Time : Three Hours

Max. Marks : 50

Note : Attempt all questions. Write in serial order.

Q1. Write short answers of -

- (a) Origin and spread of cardiac excitation. What are Pacemaker Potentials ? 5
- (b) Long term Regulation of arterial pressure. 5

Q2. Give brief answers of -

- (a) Mechanics of Respiration 5
- (b) Effect of Hyperbarism on body 5

Q3. Write brief answers of -

- (a) Physiological effects of Glucocorticoids on body 5
- (b) Placental Hormones 5

Q4. Write briefly about -

- (a) Inflammation & role of Neutrophils and Macrophages in it. 5
- (b) Prevention of blood clotting in normal Vascular System. (intra vascular anti coagulants) 5

P.T.O.

Q5. Write short notes on -

- (a) Deglutition 5
- (b) Defecation Reflexes & average composition of feces on an average diet. 5

**AKM-802**  
**M. B. B. S. (First Professional)**  
**Examination, 2008**  
**PHYSIOLOGY**  
**Paper First**

**Time : Three Hours**

**M. M. : 50**

**Note :** Attempt all questions. All questions carry equal marks.

1. Define Blood Pressure. Discuss the mechanism and its regulation.
2. Describe the different parts of cerebellum. Discuss its functions.
3. Write short notes on :  
(A) Renin Angiotensin System  
(B) Extrinsic mechanism of coagulation of blood
4. Write down how you differentiate :  
(a) Fine & coarse Tremors (write with example)  
(b) Lead pipe rigidity and clasp knife rigidity
5. Discuss with reasoning  
A patient visiting your outdoor clinic is complaining of pallor, dyspnoea and extreme fatigue.  
(a) What are the systems could be effected and why?  
(b) What investigations will be done? Describe them .

AKM 803  
M. B. B. S. (First Professional)  
Examination, 2008  
PHYSIOLOGY Paper- II

**Time : Three Hours**

**M. M. : 50**

**Note :** Attempt all questions. All questions carry equal marks

1. (a) Define Cardiac output. Describe how the Fick's Principle is used to measure the cardiac output. 5  
(b) Write in brief about the short term regulation of blood pressure.
2. Discuss in brief the following : 5  
(a) Neural control of breathing 5  
(b) Types of Hypoxia
3. Describe in brief the role of : 5  
(a) Platelets in Haemostasis 5  
(b) Neutrophils and Monocytes in protection
4. Write short notes on : 5  
(a) Basal Metabolic Rate 5  
(b) Cushing's syndrome
5. (a) Describe in brief the mechanism of digestion and absorption of carbo hydrates. 5  
(b) What is the gastric emptying time ? Describe the regulation of gastric motility and emptying. 5