

Date: 06-06-2016

PBI 3003

## **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. Enumerate various clotting factors Write in detail about intrinsic pathway of coagulation
- b. Enumerate and describe in detail about various properties of action potential in nerve
- c. Write down in detail about deglutition reflex (A.270) (8.461)

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

- a. Explain positive feedback mechanism of homeostasis with examples (A.38)
- b. Movements of small intestine
- c. Write down differences between skeletal and cardiac muscle

28. Write brief on (any one) (3)

- a. Functions of plasma proteins (A.59) (8.95)
- b. Exocrine secretions of pancreas

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

- a. Neuro-muscular junction
- b. Types of nerve fibers (A.765) (8.58)
- c. Humoral immunity (A.112) (B.139)

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## Section 2

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

- a. Transport of O<sub>2</sub> in blood
- b. Long term regulation of blood pressure
- c. Type, causes and effects of Hypoxia (A-756)  
(8.352)

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

- a. Surfactants (A.715) (8.296)
- b. Venous return
- c. Baroreceptors (A.633)

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

- a. Core temperature
- b. Brown fat

6.Short explanatory objective questions: (6)

- a. What is A/G Ratio?
- b. In which stage of erythropoiesis hemoglobin appears?
- c. What is apoptosis?
- d. What is optimum load?
- e. Name the phases of gastric secretion?

f. What is succus entericus?

g. What is cardiac reserve?

h. What is cardiogram?

i. What is SCUBA?

j. Enumerate type of periodic breathing?

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