

September - 2009

[KV 227]

Sub. Code: 2952

**M.Sc (Non Clinical) DEGREE EXAMINATION  
PRELIMINARY**

**(Common to all branches)**

**Paper II – PHYSIOLOGY AND BIOCHEMISTRY**

**Q.P. Code : 282952**

**Time : Three hours**

**Maximum : 100 marks**

**Answer Sections A and B in the SEPARATE answer books.**

**Answer All questions.**

**Section A  
(PHYSIOLOGY)**

**I. Essay:**

**(1 X 20=20)**

1. Write briefly various developmental stages of erythropoiesis with suitable diagram. Enumerate factors regulating Erythropoiesis.

**II. Write Short Notes on :**

**(10X 4 = 40)**

1. Mismatched transfusion reaction.
2. Functions of WBCs.
3. Regulation of gastric secretion.
4. Transport of oxygen.
5. Regulation of blood pressure.
6. Physiology of micturition.
7. Mechanism of muscle contraction.
8. Actions of thyroid hormones.
9. Functions of cerebellum.
10. Temporary family planning methods.

**Section B  
(BIOCHEMISTRY)**

**I. Essay:**

**(1 X 20=20)**

1. What is the normal serum cholesterol level? Describe in detail about how cholesterol is synthesized. Add a note on the products formed from cholesterol.

**II. Write Short Notes on :**

**(5X 4 = 20)**

1. Enzyme Inhibition.
2. Alkaptonuria.
3. Glycogenolysis.
4. Blotting techniques.
5. Absorption and transport of Iron.

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