

**Time: Three Hours****Max. Marks: 100 Marks****BIOCHEMISTRY (RS2 & RS3)****QP Code: 1080 – PAPER II**

Your answers should be specific to the questions asked

Draw neat labeled diagrams wherever necessary

**(Note: Both QP Codes 1079 and 1080 are to be answered within total duration of three hours)****(Use separate Answer books for QP Code 1079 & 1080)****LONG ESSAYS****1 x 10 = 10 Marks**

1. Explain the steps of initiation, elongation and termination of transcription. Add a note on post transcriptional modification of RNA.

**SHORT ESSAYS****5 x 5 = 25 Marks**

2. What is the primary defect in metabolic acidosis? List the causes of metabolic acidosis.
3. Name the different types of hemoglobin variants indicating their defects.
4. Name the protein energy malnutrition disorders. Write important differences between them.
5. Classify liver function tests. Describe the tests based on excretory functions.
6. How are purine nucleotide degraded? Mention the causes of hyperuricemia.

**SHORT ANSWERS****5 x 3 = 15 Marks**

7. List the differences between RNA and DNA.
8. Mention the causes of orotic aciduria.
9. Explain the features of genetic code.
10. How is iron absorbed and transported. Add a note on hemochromatosis.
11. Write the causes and biochemical explanations for deficiency manifestations of vitamin B12.

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