A-3033

B. Sc. (Sem. III) Examination
March / April – 2015
Bioscience : Paper : II
(Molecular Biology)

Time : Hours] [Total Marks : 50

Instructions :

(1) Figures to the right indicate full marks of the question.
(3) Draw neat and labelled diagram wherever necessary.

1 Answer as directed :
   (1) Explain - Polycistronic m-RNA.
   (2) Give any two examples of pyrimidine base.
   (3) What is excision repair ?
   (4) Enlist some chemical mutagens.
   (5) Write the full names : UMP, GMP.
   (6) A nucleotide sequence in m-RNA is - ACGGCUGCAUG
       - write down the sequence of template DNA.

2 Write an essay on - RNA.

   OR

2 Describe in brief Griffith’s, Avery-MacLeod and Hershy-Chase experiment.

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3 Answer any two of the following:
   (1) Describe in detail Watson and Crick model.
   (2) Write a note on chemical language.
   (3) Describe in brief frame-shift mutation.

4 Write short notes on: (any two)
   (1) Flow of genetic information
   (2) Okazaki fragments
   (3) Types of mutation.