



**A-3033**  
**B. Sc. (Sem. III) Examination**  
**March / April – 2015**  
**Bioscience : Paper : II**  
*(Molecular Biology)*

Time : Hours]

[Total Marks : 50

**Instructions :**

(1)

<p>नीचे दृशांवेव निशानीवाणी विगतो उत्तरवडी पर अवश्य लपवी. Fillup strictly the details of signs on your answer book.</p> <p>Name of the Examination : B. Sc. (Sem. 3)</p> <p>Name of the Subject : BIOSCIENCE : PAPER : 2</p> <p>Subject Code No. : 3 0 3 5 Section No. (1, 2,.....): Nil</p>	<p>Seat No. : □ □ □ □ □ □ □ □</p> <p style="text-align: center; border: 1px solid black; border-radius: 15px; padding: 10px;">Student's Signature</p>
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- (2) Figures to the **right** indicate full marks of the question.  
(3) Draw neat and labelled diagram wherever **necessary**.

1 Answer as directed : 12

- (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. 14

**OR**

2 Describe in brief Griffith's, Avery-MacLeod and Hershey - Chase experiment. 14

- 3** Answer any **two** of the following : **14**
- (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**) **10**
- (1) Flow of genetic information
  - (2) Okazaki fragments
  - (3) Types of mutation.
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