

Code No.: 8845

**FACULTY OF SCIENCE**  
**M.Sc. III Semester Examination, May/June 2012**

**BIOCHEMISTRY**

**Paper III**

(Biochemical Genetics)

Time : 3 Hours]

[Max. Marks : 80

Answer **all** questions.

**Section A** - (Marks: 8 x 4 = 32)

1. Deletion mutation
2. Photoreactivation
3. RFLP
4. Tetrad analysis
5. Gene conversion
6. IS Elements.
7. erb B
8. Retinoblastoma Protein

**Section B** - (Marks : 4 x 12 = 48)

9. (a) Discuss about the polygenic and maternal inheritance with suitable examples.  
Or  
(b) Explain the importance of meiosis inheritance and sex linked inheritance.
  10. (a) Describe the mapping of circular chromosome by conjugation.  
Or  
(b) Write briefly about the gene mapping in recombination analysis.
  11. (a) Give detailed note on Gene transfer in bacteria.  
Or  
(b) What are Retrotransposons, explain the mechanism of transposition.
  12. (a) Explain the role of GTP binding proteins in Gene regulation.  
Or  
(b) Write an essay on molecular mechanism of oncogene activation.
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