

B.Sc. 4th Semester (Hons.) (New Scheme)

Examination, May-2016

CHEMISTRY

Paper-P-IV

Zoology Optional P-Genomics

Time allowed : 3 hours][Maximum marks : 40

Note : Attempt five questions in all. Question No. 1 is compulsory. Attempt one question from each unit.

1. Answer the following in about 20 words : $1 \times 8 = 8$
- (i) Gene
 - (ii) Mutations causing dimmers. — UV rays,
 - (iii) Frame shift mutations.
 - (iv) Nucleoid
 - (v) F' Plasmids
 - (vi) Codons
 - (vii) RNA polymerase
 - (viii) Eukaryotes.

Unit-I

2. Give a detailed account on transposons in prokaryotes. 8
3. Writes short notes on :
- (a) Types of chromosomal mutations. 4
 - (b) Transposable elements. 4

Unit-II

4. Give a detailed account on types of DNA repair along with their pathways. 8
5. Write short notes on :
- (a) Error prone DNA repair 4
 - (b) Mutagenesis 4

Unit-III

6. Write short notes on :
- (a) Multiple gene families 4
 - (b) Repetitive DNA 4
7. Give a detailed account on prokaryotic and eukaryotic genomes. 8

Unit-IV

8. Write short notes on :
- (a) Organization of human genome project. 4
 - (b) Goals of human genome project. 4
9. Write in detail the mitochondrial genome. 8

Home. Abt me Q&A - @notes. Contact me S.F. 8 Y.