

P. Pages : 1

Time : Three Hours



GUG/S/23/11149

Max. Marks : 80

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- Notes : 1. All questions are compulsory and carry marks as indicated.
2. Draw diagram wherever necessary.

1. Explain the mechanism of DNA replication in detail. 16

OR

- a) Explain physical and chemical mutagens involved in mutation. 8
b) Write a note on BER. 8

2. Describe in detail process of transcription and its regulation. 16

OR

- a) Discuss three types of RNA polymerases. 8
b) Write a note on Packaging of chromosomes. 8

3. Describe Eukaryotic translation process in detail. 16

OR

Write note on followings.

- a) Deciphering the genetic code. 8
b) Post translation modification of protein. 8

4. Describe conjugation in bacteria in detail. 16

OR

- a) Give note on C-value paradox. 8
b) Give note on extra chromosomal inheritance. 8

5. Write notes on:

- a) Repair of double strand breaks. 4
b) Britten-Davidson model. 4
c) Couple transcription translation. 4
d) transformation of gene. 4
