

M.Sc. (Biotechnology) (CBCS Pattern) Sem-I
PSBIT104 - Molecular Biology Paper-IV

P. Pages : 1

Time : Three Hours



GUG/W/22/11149

Max. Marks : 80

1. Discuss different chemical mutagens for gene mutation. **16**

OR

a) Discuss different accessory proteins involved in DNA replication. **8**

b) Give comparison between prokaryotic and eukaryotic DNA replication. **8**

2. Discuss in detail the process of transcription. **16**

OR

a) Discuss regulation by lac operon. **8**

b) What is negative autogenous control. **8**

3. Give details on post translation modification. **16**

OR

a) Mechanism of prokaryotic and eukaryotic translation. **8**

b) Write the characteristics of genetic code. **8**

4. Discuss in detail conjugation in bacteria. **16**

OR

a) Give salient features of E. Coli genetic map. **8**

b) Discuss in short transformation. **8**

5. a) Transcription - repair coupling. **4**

b) Promotor of RNA Polymerase II **4**

c) Couple transcription. **4**

d) Extra chromosomal inheritance. **4**
