

02MSCB-4.1 - Elective Paper-IV - Molecular Biology and Plant Biotechnology-II

P. Pages : 1

Time : Three Hours



GUG/W/24/15344

Max. Marks : 80

-
- Notes : 1. All questions are compulsory and carry equal marks.
2. Draw well labeled wherever necessary.

- 1.** Explain in detail Structure and functions of Ribosome. **16**
OR
Write notes on-
a) Post-translational modification. **8**
b) Transcription factors in Prokaryotes. **8**
- 2.** Explain in detail about the regulation of gene expression in prokaryotes. **16**
OR
Write notes on-
a) Protein targeting to plastids. **8**
b) RNA splicing. **8**
- 3.** Explain mechanism of mapping of bacterial genes through transformation and conjugation. **16**
OR
Write notes on-
a) Genetics of Mitochondria. **8**
b) Construction of molecules maps. **8**
- 4.** Write in detail about the cell cycle-mechanism and role of cyclins. **16**
OR
Write notes on-
a) Programmed cell death in plants. **8**
b) Receptors and G-proteins. **8**
- 5.** Write short notes on.
a) Role of tRNA. **4**
b) Fine structure of gene. **4**
c) Somatic cell genetics. **4**
d) Sucrose sensing mechanism. **4**
