

NEP-04-1 / 01MSCB4.1- Paper-IV : Molecular Biology and Plant Biotechnology-I

P. Pages : 1

Time : Three Hours



GUG/W/23/15064

Max. Marks : 80

- Notes : 1. All questions are compulsory and carry equal marks.
2. Illustrate your answers with diagram.

1. Give a detail account on membrane receptors. **16**
OR
- Write notes on.
- a) Cell wall structure. **8**
 - b) Fluid mosaic model. **8**
2. Structure and function of microtubules. **16**
OR
- Write notes on.
- a) Ultrastructure of endoplasmic reticulum. **8**
 - b) Microfilament. **8**
3. Write in detail on eukaryotic DNA replication. **16**
OR
- Write notes on.
- a) Ultrastructure of nucleolus. **8**
 - b) DNA repair. **8**
4. Explain in detail flow cytometry. **16**
OR
- Write notes on.
- a) Ion-exchange chromatography. **8**
 - b) FISH. **8**
5. Write short notes on.
- a) Plasmodesmata. **4**
 - b) Function of mitochondria. **4**
 - c) Forms of DNA. **4**
 - d) ELISA. **4**
