

M.Sc. (Part - I) (Zoology) (NEP Pattern) Semester-I
NEP-83 / 01MSCZO03 - Paper-III : Cell Biology and Genetics

P. Pages : 1

Time : Three Hours



GUG/W/23/15145

Max. Marks : 80

1. Structural organization of mitochondria and its function. **16**
- OR**
- a) Active transport. **8**
- b) Microtubules and their role. **8**
2. Give an account on tumor suppressor genes. **16**
- OR**
- a) Receptor protein. **8**
- b) Primary and secondary messenger system. **8**
3. Give detail account on codominance and incomplete dominance. **16**
- OR**
- a) Mutation types. **8**
- b) Sex linkage. **8**
4. Write an essay on extra chromosomal inheritance. **16**
- OR**
- a) Gene mapping. **8**
- b) Pedigree analysis. **8**
5. Write short notes-
- i) Osmosis. **4**
- ii) Gap junctions. **4**
- iii) Sex linkage. **4**
- iv) Karyotypes. **4**
