M.SC. (Zoology) First Semester Old

ZOO-03 - Cell Biology and Genetics Paper-III

P. Pages: 1 GUG/W/18/2196 Time: Three Hours Max. Marks: 80 All questions are compulsory. Notes: 1. All questions carry equal marks. 2. Draw well labelled diagram whenever necessary. 3. Describe the structure and function of cell membrane. 1. 16 OR Write notes on. Mitochondria. a) Microfilament. b) 2. Explain the detailed on signal transduction pathway. 16 OR Write notes on. Cancer. a) Hormone and their receptor. b) 3. Write an account of mutation. 16 OR Write notes on. Linkage and crossing over. Dihybrid inheritance. b) 4. Give an account of structural and numerical alternation of chromosomes. 16 OR Write notes on Inheritance of mitochondrial genes. b) Recombination in Bacteria. 5. Attempt the following. **16** a) Mitosis. Secondary messenger. b) Sex linkage. c) Conjugation. d) *****