Post Graduate Teaching Department of Zoology An Autonomous Department of

Rashtrasant Tukadoji Maharaj Nagpur University, Nagpur

Programme: M. Sc. Zoology Semester -I (CBCS)

Theory Examination Winter-2022

Code and Name of Paper: PGZO1T3 Paper-1T3-Cell Biology and Genetics

Time: 3hrs	Maximum Marks: 60
Note 1. All the questions are compulsory. 2. All questions carry equal marks. 3. Draw well labelled diagrams and charts wherever necessary.	
Q.1 Give detail account on phases and regulation of cell cycle OR Write notes on- (a) Active transport. (b) Microfilament.	. 12
Q.2 Describe components and organization of extracellular material OR Write notes on- (a) Cell-Cell interaction.	atrix. 12
(b) G-protein coupled receptors. Q.3 Explain Mendelian dihybrid inheritance. OR Write notes on- (a) Polygenic traits.	12
(b) Sex linkage. Q.4 Explain structural alteration of chromosomes. OR Write notes on- (a) Maternal inheritance.	12
 (b) Conjugation. Q. 5 Write in brief on the followings: - (a). Peroxisomes. (b). cAMP. (c). Loss of function mutation. 	12