

W-3299

M.Sc. (Fourth Semester) Examination, June-2020

ZOOLOGY

Paper - 404-B

Chromosome Genes & Genetics of Development

Time : Three Hours

Maximum Marks : 85

Minimum Pass Marks : 29

Note : Attempt **All** Questions.

Unit-I

- Q.1. Discuss specialized chromosome. Explain structural organization and functional significance of Polytene chromosomes. 17

Unit-II

- Q.2. Explain structural organization of Eukaryotic genes : interrupted genes and overlapping genes. 17

Unit-III

- Q.3. Describe Organization of Eukaryotic transcriptional machinery : Promotor, Enhancer, RNA Polymerases ; and activators. 17

Unit-IV

- Q.4. Discuss genetic basis of thalasemias, muscular dystrophy and cystic fibrosis. 17

Unit-V

- Q.5. Describe Drosophila development II origin of Dorsal and Ventral Polarity. 17

