

**2019**

*Time : 3 hours*

*Full Marks : 75*

*Pass Marks : 34*

*Candidates are required to give their answers in their own words as far as practicable.*

*The questions are of equal value.*

*Answer **five** questions, selecting at least **two** from each Group.*

**Group – A**

1. Describe the ultrastructure and functions of Golgi body.
2. Give an account of the ultrastructure of chromosome.
3. What are stem cells ? What are its different classes ? Add a note on its importance.

4. Define senescence . Explain the mechanism of senescence.

**Group – B**

5. Describe the inheritance of sex-linked characters in man.
6. What is linkage ? Explain the mechanism of complete and incomplete linkage.
7. What do you mean by multiple alleles ? Describe the phenomenon of multiple allelism with suitable examples.
8. Give an account of gene mutation.

