

SECTION-A

1- Write short answers to the following questions:

1x8

- i) Differentiate between Trioses and Tetroses.
- ii) List two main functions of Lipids.
- iii) What are Conjugated Proteins?
- iv) List the parts of Nucleotides they are made of.
- v) Differentiate between Cellulose & Hemicellulose.
- vi) What are Plastids?
- vii) What are the harmful effects of Biotechnology?
- viii) List two objections of Darwin's theory.

SECTION-B

2- Comment on the statement "Linkage and Crossing Over are the two aspects of the same phenomenon." 7.5

3- Define Polyploidy. Also discuss types of Polyploidy. 7.5

4- a) How transmission of genetic material in bacteria occur by Conjugation. 4

b) How genes pair affect the same character? 3.5

5- Explain phenomenon of Replication in DNA. 7.5

SECTION-C

6- Explain phenomenon of Evolution under i) Isolation ii) Gene Frequency 4, 3.5

7- a) What is DNA finger printing? Give methods. 4

b) What are advantages of Finger Printing? 3.5

8- What is Tissue Culture? Give methods. 7.5

9- What is Genetic Engineering? Give its importance and application. 7.5

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