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Dec 2016

Roll No. 2704031.....

Total No. of Pages : 2

BT-1/D06

8050

Introduction to Biotechnology

Paper : BT-101E

Time : Three Hours]

[Maximum Marks : 100

Note :— Attempt FIVE questions in all taking at least ONE form each section.

SECTION—A

1. Differentiate between prokaryotic and eukaryotic cells. Draw a labelled structure of Plant cell. 20
2. (a) What are carbohydrates ? Give different classes of carbohydrates with examples. 20
(b) Discuss the importance of carbohydrates. 20

SECTION—B

3. Give brief notes on :—
 - (i) Light reaction of photosynthesis
 - (ii) Plant growth regulators10,10
4. Give brief notes on :—
 - (i) Respiratory system
 - (ii) Economic importance of micro-organism.10,10

SECTION—C

5. State and explain Mendel's Laws of Inheritance. 20
6. Give a brief account of Meiosis. How does it differ from Mitosis ? 20

SECTION—D

7. By taking suitable examples discuss the applications of Biotechnology in Agriculture. 20

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8. (a) Outline the approaches used in the construction of recombinant DNA.
- (b) Give the various concerns of generating genetically modified organism.

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