BIOLOGY

BOOKS - VIKRAM PUBLICATION (ANDHRA PUBLICATION)

MARCH - 2017 (TELANGANA)

Section A

1. Termination of transcription is by

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2. Father of green revolution is

3. Describe briefly the followings:

(a) Origin of replication

(b) Bioreactors

(c) Downstream processing

4. Name any two industrially important heterogeneous catalytic reactions mentioning the catalysts used.

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5. Which one of the following acts as a physiological barrier to the entry of microorganisms in human body?

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6. What are Apoplast and Symplast ?

7. Discuss the factors responsible for ascent of xylem sap in plants.

8. What is the cross between the F_1 Progeny and the Homozygous recessive parent called ? How is it useful ?

9. The proportion of nucleotides in a given nucleic acid are Adenine 18%, Guanine 30%, Cytosine 42% and uracil 10%. Name the nucleic acid and mention the number of strands in it.

10. How nucleopolyhedroviruses are used in these days ?

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1. What are enzymes inhibitors?

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2. Tabulate any eight differences between C_3 and C_4 plants/cycles.

3. Explain the structure of TMV.

4. Write a short note on seed dormancy.

5. Mention the advantages of selecting pea plant for experiment by Mendel.

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6. Types of RNA polymerase required in nucleus for RNA synthesis

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7. Which branch of botany deals with functional aspects of plants?

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8. Write notes on amino acids

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Section C

1. In Krebs cycle

2. The first human hormone produced by recombinant DNA technology is :

3. You are a Botanist working in the area of plant breeding. Describe the various steps

that you will undertake to release a new variety.

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