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INDIAN SCHOOL MUSCAT SECOND PERIODIC TEST

BIOLOGY

CLASS: XII

Sub. Code: 044

Time Allotted: 50mts

13.09.2018

Max. Marks: 20

GENERAL INSTRUCTIONS:

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- *All questions are compulsory.*
- *Internal choices are provided for one 2 marks and both the 3marks questions.*

1. Lactose is considered an inducer in lac operon. Give reason. 1
2. What do you mean by biogenesis? 1
3. If the sequence of the coding strand in a transcription unit is written as follows: 1
5' - ATCGATCGATCGATCGATCGATCG - 3'
Write the sequence of mRNA transcribed from it.
4. Expand Eco R1. 1
5. Describe the isolation of DNA from bacterial cell. 2
6. Explain any two methods of vector less gene transfer. 2
7. Why hn RNA needs to undergo splicing? 2
8. Differentiate between the theories of Charles Darwin and Hugo de Vries regarding evolution. 2

OR

What is founder effect? List any two factors affecting Hardy Weinberg equilibrium.

9. Describe two salient features of genetic code. 2
10. Explain Nucleosome model of chromosome with a neat labeled diagram. 3

OR

List any 3 salient features of Double Helix model of DNA.

11. Discuss different steps involved in the process of amplification of DNA. 3

OR

Explain how β galactosidase site acts as selectable marker.

End of the Question Paper