

Roll Number		
-------------	--	--

A



INDIAN SCHOOL MUSCAT SECOND PERIODIC TEST

BIOLOGY

CLASS: XII

Sub. Code: 044

Time Allotted: 50 mts

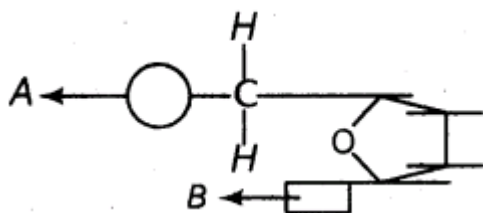
13.09.2018

Max. Marks: 20

GENERAL INSTRUCTIONS:

- All Questions are compulsory.
- Draw diagrams if necessary.

1. Name the components “a” and “b” in the nucleotide with a purine given below. 1



2. What is Cistron? 1
3. Who brought forth the idea of mutations that causes evolution? 1
4. What is recombinant DNA? 1
5. How do S-strain and R-strain of *Streptococcus Ineumonia* bacteria differ from one another? 2
6. What are UTRs? Where are they located on Mrna? 2
7. Are flippers of Penguin and Dolphin homologous or analogous? What type of evolution has brought such a similarity in them? 2

OR

List the two main propositions of Oparin and Haldane Theory.

8. Name and describe the two main types of restriction enzymes. 2
9. What are cloning vectors? Name the two commonly used vectors. 2

10. Write down the structural genes in Lac operon. What do they code for? 3

OR

State the structural and functional differences between Mrna and Trna.

11. How and why is the bacterium *Thermus aquaticus* employed in Rdna Technology? Explain 3

OR

List the three features of Cloning vector and explain each one of them.

End of the Question Paper