Roll Number	

 C



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.	What is the base pairing pattern of DNA?	1
2.	What do the triplets AUG and UGA respectively each for during protein synthesis?	1
3.	Who dismissed once and for all, the spontaneous generation theory of origin of life?	1
4.	Define gene cloning.	1
5.	Explain the experiments conducted by Taylor and his colleagues in 1958. What was	2
	conclusion of that experiment?	
6.	What is splicing? Why is splicing necessary in eukaryotic genes?	2
7.	Would you consider the wings of a butterfly and a bat as homologous or analogous? Why?	2
	OR	
	i) In which part of the world, Neanderthal man lived. ii) What was his brain capacity?	
8.	a) Define Biotechnology b) What does the term 'amplification' mean with reference to PCR?	2
9.	Explain any two methods of vectorless gene transfer.	2

3

OR

Define the following terms

- a) promoter and terminator of transcription unit. b) ribozyme.
- 11. Name and Explain the technique used in the separation and isolation of DNA fragments to

 be used in rDNA technology,

OR

Explain the process by which a bacterial cell can be made 'competent'. Why is it essential to make bacterial cells 'competent' in rDNA technology?

End of the Question Paper