AIMSTUTORIAL.IN Model guess paper-1 - March - 2019 INTERMEDIATE II -YEAR telengana

Time: 3hours

BOTANY - II

Max.Marks:60

INS	INSTRUCTIONS:		
1.	Q.Nos: 1 - 10 are Very Short Answer Type. Each question carries 2 marks.		
2.	Q. Nos: 11 - 18 are Short Answer Type. Each question carries 4 marks.		
3.	Q.Nos: 19 - 21 are Long Answer Type. Each question carries 7 marks.		
I.	Answer ALL questions in 2 or 3 lines each.	[10 x 2 = 20]	
1.	Name the essential elements present in nitrogenase enzyme. What type of essential ethey?	elements are	
2.	Which element is regarded as the 17th essential element ? Name a disease caused by i	ts deficiency.	
3.	Write briefly on the occurrence of microorganisms.		
4.	Define alleles.		
5.	In a typical DNA molecule, the porportion of thymine is 40% of the N-bases. Find the pe other N-bases.	rcentages of	
6.	What is meant by capping and tailing.		
7.	What is downstream processing.		
8.	Give different types of cry genes and pests which are controlled by the proteins encodingenes.	ded by these	
9.	Name the microbe used for statin production. How destatins lower blood cholesterol le	evel.	
10.	Name any two industrially important enzymes.		
II.	Answer any SIX of the following questions in about 75 words each.	[6 x 4 = 24]	
11.	Describe C ₄ cycle.		
12.	Write a short notes on seed dormancy. $\stackrel{\circ}{\sim}$		
13.	Explain the steps involved in the formation of root nodule.		
14.	How does ascent of sap occur in tall trees.		
15.	Draw a neat labelled diagram of T - even bacteriophage and explain its structure.		
16.	Explain the codominance with an example.		
17.	How many types of RNA polymerases exist in cells? Write their names and functions.		
18.	Give a brief account of pest resistant plants.		
III.	Answer any TWO of the following questions in about 300 words each.	[2 x 8 = 16]	
19.	Given an account of glycolysis . Where does it occur? What are the end products? Trac these products in both aerobic and anaerobic respiration.	ce the fate of	

- 20. Give a brief account of the tools of recombinant DNA technology.
- You are a Botanist working in the art of plant breeding. Describe the various steps that you will undertake 21. to release a new variety.

***All the Best....