Seat	Sat	D
No.	Set	

	D.S	Biotechnology APPLICATION	auon Oct/Nov-2019
-		te: Wednesday, 09-10-2019 00 AM To 10:30 AM	Max. Marks: 70
Instr	uctior	ons: 1) All questions are compulsory. 2) Figures to the right indicate full marks. 3) Draw neat and labeled diagrams.	
Q.1	Fill in 1)	in the blanks by choosing correct alternatives of Xenobiotic compounds are chemicals which are a) foreign b) known c) transgenic d) familia	to the biosphere.
	2)	A population growing on one compound months contaminating chemical that cannot be used as a known as co-metabolism.  a) Human b) Microbact d) Forest	'C' source, process is
	3)	are synthesized in cells that have been ex a) Carbohydrates b) Lipids c) Interferon d) Nuclei	•
	4)	engineering is the second generation of rE  a) RNA b) DNA c) t RNA d) Protein	
	5)	Antisense RNA must bind to a specified mRNA & protein.  a) Translation b) Bindin c) Dissolving d) Modifie	g
	6)	The addition of To animal cell reduces the from which double stranded RNA sequence is de a) Ds DNA b) Ds RN c) Ss DNA d) Ss RN	rived. IA
	7)	vaccine for cholera is prepared by Cholera  a) DNA b) RNA c) Subunit d) Protein	
	8)	,	due tolnsertion of <i>E.coli</i> Iomonas Inpestris
	9)	Crystal shape of is Bipyradimal.  a) CRY I A(a) b) TRY I c) FLY I A(a) d) DNA	A(a)
	10)	Monellin Portion is 3000 times than sucros a) Larger b) Sweet c) Smaller d) Sour	

	11)	Compounds which are foreign to exhibiting unnatural structural features are known as Xenobiotics.		
		a) Earth b) Soil c) Life d) Water		
	12)			
	13)	Malignant gliomais an example of disease which may be cured by as therapeutic agent. a) Antisense RNA b) DS DNA c) DS RNA d) Antisense oligonucleotide		
	14)	is a infectious agent from HSV1 which elicit the antibodies that react against intact form of infectious agent.  a) Envelope glycoprotein B  b) Envelope glycoprotein D  c) Envelope glycoprotein A  d) Envelope glycoprotein C		
Q.2	A)	Answer the following questions. (Any Four)  1) Define antisense RNA.  2) Define attenuated vaccine.  3) Explain in brief vaccines against bacteria.  4) Define Interfering RNA.  5) Enlist the applications of transgenic animals.		
	B)	<ul> <li>Write Notes on (Any Two)</li> <li>Write note on Xenobiotics.</li> <li>Write a note on increase in enzyme activity.</li> <li>Write a short note on biosynthesis of rubber.</li> </ul>		
Q.3	A)	<ul> <li>Answer the following questions. (Any Two)</li> <li>1) Discuss synthesis of human growth hormone.</li> <li>2) Explain genetic engineering to increase enzyme stability.</li> <li>3) Describe cloning livestock by nuclear transfer.</li> </ul>		
	B)	Answer the following questions. (Any One)  1) Write a short note on edible vaccine.  2) Describe synthesis of Human interferon.		
<ol> <li>Discuss the method which develops I</li> <li>Explain in details of transgenic mice.</li> </ol>		2) Explain in details of transgenic mice.	10	
	B)	Answer the following question. (Any One)  1) How will you increase the sweetness by genetic engineering?  2) How will you produce genetically modified interferon?	04	
Q.5	Ans a) b) c)	wer the following questions. (Any Two)  Explain vector vaccines directed against viruses.  How will you Xenobiotics by using microbes.  Give detail of subunit vaccines against FMD.	14	