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## B.Sc. (Semester - V) (New) (CBCS) Examination Oct/Nov-2019

	IVI.	TD	Biotechn DDUCTION TO BIOTECHN			TDIEC
	& Date	: Fri	day, 11-10-2019 1 To 02:00 PM	OLO.	GT BASED INDOS	Max. Marks: 70
Instr	uction	2	) All questions are compulsory. ?) Figures to the right indicate full ?) Neat diagrams must be drawn			
Q.1	Fill in 1)	<i>Azc</i> a)	e blanks by choosing correct a btobacter and Bacillus polymyxa a Decomposers Symbiotic nitrogen fixers	are b)	 Nonsymbiotic nitroger	14 n fixers
	2)	a) b) c)	mean International Standards Organiz International Organization of Sta Indian Standards Organization Internal Standard Organization		ds	
	3)	a)	ermenter, up to the production of upstream process fed batch process	desira b) d)		·
	4)		idation at Premise control is base Buildings Resources	ed on de	People Assumptions	
	5)		ee living nitrogen fixing bacteriur Clostridium Rhizobium		Azotobacter Anabaena	
	6)	a)	biotics are Cancer inducing microbes New kind of food allergen		Safe antibiotic Microbial food suppler	nent
	7)	a)	e environmental protection Act wa 1980 1974	as ena b) d)	acted in the year 1972 1986	in India.
	8)	FSS a) c)	SAI is located in 5 regions with he Hyderabad Banglore	ead of b) d)	fice located at Mumbai New Delhi	
	9)	incl a)	per the definition for Food under ude Alcoholic beverages Caffeinated beverages	the Fo b) d)	ood Act in India, Food o Chewing tobacco Chewing gum	does not
	10)	a)	IO (World Health Organization) w 7 October, 1948 7 July, 1948	/as es b) d)	tablished in 7 April, 1948 7 June, 1948	

	11)	a) d	<b>.</b>	 b) d)	before production during supply of raw material	
	12)	a) 0 b) 0 c) 0	nitials GMP stand for Good Manufacturing Procedure Good Manufacturing Practice Great Manufacturing Procedure General Manufacturing Process			
	13)	<ul><li>a) A</li><li>b) A</li><li>c) A</li></ul>	tands for Active Pharmaceutical Inspection Active Pharmaceutical Ingredien All Pharmaceutical Ingredients Active Product Inspection			
	14)	<ul><li>a) C</li><li>b) A</li><li>c) N</li></ul>	are  Optional  Applicable only to meats  Mandated to ensure the safety a  Applicable only to antibiotics	nd wł	nolesomeness of processed food su	ıpply
Q.2	A)	1) C 2) V 3) C 4) C	er the following questions. (A Give any four functions of HR of Vrite down roles and responsibil Authority of India. Define and Give importance of C Define GMP principles. Enlist Biotechnology based comp	comp ities o	any. of Food Safety and Standards	80
	B)	1) E a 2) V	er the following questions. (A Explain biology and biotechnolog ctivities of CSIR. Vrite note on industrial safety. Vrite down roles and responsibil	gy bas	•	06
Q.3	A)	1) E 2) E	er the following questions. (A Explain downstream processing Explain GMP guidelines for raw in Vrite note on quality assurance.	in fer mater	•	80
	B)	1) V	er the following questions. (A Vrite down SOP for any two labo Store and purchase department	orator	y instruments.	06
Q.4	A)	1) E 2) V	er the following questions. (A Explain V-model of validation pro Vrite down roles and responsibil Batch manufacturing record of co	gram ities (	mé. of ICAR.	10
	B)	1) E	er the following questions. (A xplain production of any bio-fer xplain any national fellowship s	tilizer	and its importance.	04
Q.5	Ansv a) b) c)	Explai Explai	e following questions. (Any Ton production and application of n general organizational structu note on quality control departme	probi re of	any biotechnology based industry.	14