Seat No.:	

P.T.O.

## **DK-101**

December-2021

B.Sc., Sem.-III

CC-201 : Biotechnology (Concept in Biotechnology)

Time:	2 Но	ours	l	[Max. Marks	: 50
Instruc	ction	s:	(1) (2) (3) (4) (5)	All questions in Section – I carry equal marks.  Attempt any THREE questions in Section – I.  Question – 9 in Section – II is compulsory.  Draw figures where necessary. Show question number against each answer.  Figures in right are marks.	h
				Section – I	
1. (	-	Wha field		the definition of Biotechnology? Write major contribution from related	d 7
(1	B)	Desc	ribe	Scope and challenges of Biotechnology after Covid-19 Pandemic.	7
2. (		-	ain a	area of agriculture and environmental Biotechnology giving suitables.	le 7
(1	B)	Elab	orate	e Health and Medical Biotechnology giving suitable examples.	7
3. (	A)	Enlis	st top	companies and their sector of working in Biotechnology in Gujarat.	7
(1	B)	Desc	ribe	the role of ICGEB and GSBTM in promotion of Biotechnology.	7
4. (	A)	Wha	t is E	Bt Cotton ? Explain development of Bt Cotton in detail.	7
(1	B)	Desc	ribe	case study of Flavr-savr tomato with illustration.	7
5. (	A)	Disc	uss r	ole of BIS and ISO certification in quality control.	7
(	B)	Expl	ain i	mportance of Entrepreneurship development in biotechnology sector.	7

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6.	(A)	Write significance of automation in Industries.							
	(B)	Disc	Discuss briefly GLP.						
7.	(A)	Disc	euss Important provision o	f 'Manufa	acture, Use, Import, Export and Storage of				
		Haz	ardous Microorganisms in	India.		7			
	(B)	Elab	orate ethical and social iss	sues relate	ed to human cloning.	7			
8.	(A)	Disc	Discuss threats from GM crops and role of GEA committee in India.						
	(B)	Exp	lain IPR and patents in det	ail.		7			
			S	ection – l	П				
9.	Ansv	wer th	e following: (Any eight)			8			
	(1)	Field	d of biotechnology which	is applied	to industrial processes is known as.				
		(a)	Blue biotechnology	(b)	Green biotechnology				
		(c)	White biotechnology	(d)	Red biotechnology				
	(2)								
		(a)	1979	(b)	1986				
		(c)	1990	(d)	2004				
	(3)	Environmental Biotechnology does not involve							
		(a) Bioremediation							
		(b)	The use of microbes to clean up the environment.						
		(c) The study of benefits and hazards associated with GMOs.							
		(d) Bioterrorism							
	(4)	CSIR Institute of Microbial Technology is situated at-							
		(a)	Delhi	(b)	Chandigarh				
		(c)	Haryana	(d)	Bhavnagar				
	(5)	Which one of the following is an inter-governmental organization.							
		(a)	DBT	(b)	CSIR				
		(c)	ICGEB	(d)	GSBTM				
	(6)	What is TQM							
		(a)	Total Quantity Managen	nent					
		(b)	Total Quality Manageme	ent					
		(c)	Total Qualitative management						
		(d)	None of the above						

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(7) Requirements of quality management system are						
	(a)	Flexibility/control	(b)	Real intelligence		
	(c)	Enterprise scalability	(d)	all of the above		
(8)	Wha	t is GILSP?				
	(a)	Good industrial lab search p	ractice	es		
	(b)	Good industrial lab scale pra	actice			
(c) Good Industrial Large-Scale Practice						
	(d)	None of the above				
(9)	GLP	does not apply on manufactu	ring o	f		
	(a)	vaccines	(b)	medicines		
	(c)	cosmetics	(d)	All of the above		
(10)	(10) What does QA and QC stand for ?					
	(a)	Quality Adjustment and Qua	euing	control		
(b) Quality Assurance and Quality control						
	(c) Quality Adjustment and Quality completion					
	(d) Quality Assurance and Queuing Control					
(11)	Dolly the sheep was cloned from which type of differentiated adult cell?				ılt cell ?	
	(a)	Udder	(b)	Skin		
	(c)	Blood	(d)	kidney		
(12)	To o	obtain a patent the inventor must give an application to.				
	(a)	certifying authority	(b)	Controller of patent		
	(c)	commissioner of patent	(d)	any of the above		
(13)	A pa	tent is valid for				
	(a)	20 years	(b)	15 years		
	(c)	60 years	(d)	25 years		
(14)	Whe	n did the WTO come into effe	ect?			
	(a)	March 6, 1996	(b)	April 8,1994		
	(c)	February 5,1994	(d)	January 1,1995		
(15)	India resea	an Government has set up an	organ	ization such as	_ to validate GM	
	(a)	CSIR	(b)	GEAC		
	(a) (c)	GSBTM	(d)	DBT		

(16)	The	The use of living organisms to degrade environmental pollutants is called						
	(a)	Microremediation	(b)	Bioremediation				
	(c)	Nanoremediation	(d)	All of the above				
(17)	7) The first transgenic plant to be produced is							
	(a)	Tobacco	(b)	Brinjal				
	(c)	Rice	(d)	Corn				
(18)								
	(a)	Cry	(b)	Arb				
	(c)	Tet	(d)	None of the above				
(19) Bureau of Indian Standards works under aegis of								
	(a)	(a) Department of Heavy Industry						
	(b)	Ministry of Commerce and I	ndust	ry				
	(c)	Ministry of Consumer Affair	rs, Foo	od & Public Distribution				
	(d)	Ministry of Micro Small and	Med	ium Enterprises				
(20) Which statement is correct for GMP?								
	(a)	GMP is a part of QA but not	a par	t of QC				
	t of QA							
	(c)	GMP is a part of both QA ar	nd QC					
	(d)	GMP is neither a part of QA	nor Ç	QC				
(21)	21) The nucleus of donor is removed during human cloning.							
	(a)	Sperm	(b)	Egg				
	(c)	Embryo	(d)	None of the above				
(22)	The	correct order of genetic couns	elling	is				
	(a)	Diagnosis, Prognosis, Treatr	nent					
	(b) Prognosis, Diagnosis, Treatment							
	(c) Pretreatment, Diagnosis, Prognosis							
	(d)	Pretreatment, Diagnosis, Tre	atmer	nt				

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