

Brainware University
Parasat, Kolkata -700125

Full Marks: 60

c) BSL III laboratory

(iii) SBCC stands for



BRAINWARE UNIVERSITY

Term End Examination 2024-2025
Programme – B.Sc.(BT)-Hons-2024
Course Name – Bioethics and Biosafety
Course Code - BBT20203
(Semester II)

[T	he figure in the margin indicates full marks. Ca words as f	ndidates are required to give their ar as practicable.]	answers in their own
		Group-A	
1.	(Multiple Choice Type Question) Choose the correct alternative from the following:		1 x 15=15
(i)	Public health ethics is a branch of		
(ii)	a) Medical ethics c) Abortion Yersinia pestis(plague) can be studied in	b) Bioethics d) None of these	
	a) BSL I laboratory	b) BSL II laboratory	THE RESERVE LAND

d) BSL IV laboratory

- a) State Biotechnology Coordination Council
 c) State Biotechnology Coordination
 Corporation

 (iv) One of the concerns in genetic engineering is the risk of

 a) Eliminating climate change
 c) Improving human intelligence

 b) State Biotechnology Coordination Committee

 d) Soil Biotechnology Coordination Committee

 b) Reducing agricultural productivity
 d) Changing or harming ecosystems
- (v) Why did India establish the Traditional Knowledge Digital Library (TKDL)?
 - a) To document traditional medicine and b) To comr prevent bio-piracy globally
 - c) To replace traditional knowledge with modern science
- (vi) ____is the concept of "Agrobioethics" primarily focus on.
 - a) Promoting GMOs without ethical considerations
- b) To commercialize traditional knowledge globally
- d) To store all patents related to modern medicines
- b) Resolving ethical conflicts in agricultural biotechnology

	c) Increasing market profits for biotech companies	d) Completely banning biotechnology in				
(vii)	What was the significance of the "Bowman v. Mc	agriculture man v. Monsanto Co." case?				
	a) It promoted free use of genetically modified seeds	b) It reinforced patent rights on genetically modified seeds	/			
	c) It banned the use of genetically modified organisms	d) It allowed farmers to reuse patented se without restrictions	eds			
(viii)	A pharmaceutical company develops a revolutionary gene therapy for a rare disease, but the prices are so high that only wealthy individuals can afford treatment. This represents:					
	a) Equitable healthcare distribution c) The ethical dilemma of affordability in medical biotechnology	b) Economic sustainability of biotechnolog d) The elimination of rare diseases worldw				
(ix)	The European Patent Office (EPO) is responsible	for				
	a) Issuing patents valid in all EU countries c) Granting patents in European countries based on a centralized system	b) Regulating global trade in biotechnolog d) Monitoring compliance with WTO	y			
(x)	Patent holder must bring infringement action wit Act, 1970.	agreements hin years as per the Indian Patents				
	a) 6 yrs	b) 5 yrs				
,	c) 2 yrs	d) 3 yrs				
(xi) The committee responsible for implementing biosafety guidelines in institutions handling hazardous microorganisms and genetically engineered (GE) organisms is						
	a) Genetic Engineering Appraisal Committee (GEAC)	b) Institutional Biosafety Committee (IBSC)				
	c) District Level Committee (DLC)	 d) State Biotechnology Co-ordination Committee (SBCC) 				
(xii)	is NOT a step in the patent application p					
(xiii)	a) Filing a patent applicationc) Publishing the patent in newspapersChoose the key factor that led to the development	b) Examination of the application d) Grant or rejection of the patent of bioethics as a field.				
	a) Advancements in transplantation and gene therapy	b) Human cloning research				
(xiv)	c) Animal cloning and xenotransplantation Define the role of intellectual property rights in t	d) Extracorporeal fertilization raditional knowledge protection.				
	They ensure private corporations control traditional knowledge	 b) They help prevent bio-piracy and protecting indigenous rights 	t			
	c) They eliminate the need for documenting traditional knowledge	d) They make traditional knowledge more expensive				
(xv)	Identify the primary emphasis of the passage reg agricultural practices.	arding integrating modern and traditional				
	a) Economic profitability c) Technological advancement	b) Environmental sustainability d) Social equality				
	Group-B					
	(Short Answer Ty		x 5=15			

3. State different social and bioethical issues in biotechnology.	(3)
4. Define effects of Patent Amendment Act 2005.	(3)
5. Explain adoption and implications of GM crops for food security in different countries.	(3)
6. State the conditions of patent litigation.	(3)
OR	1-7
Estimate salient Features of WIPO for invention.	(3)
Group-C	
(Long Answer Type Questions)	5 x 6=30
7. Explain the process of biohazard remediation.	(5)
8. What are the main features of TRIPs agreement?	(5)
9. Write about the content of patent document.	(5)
10. Write down the drawbacks of patent.	(5)
11. Infer the patentability of Micro-organism by a suitable example.	(5)
12. Select the benefits of genetically modified crops	(5)
OR	(3)
Evaluate the role of Institutional Biosafety Committee (IBC) in India.	(5)
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