Reg. No



## THE RELATED OF THE REAL

Time: 3 hrs

## GIET UNIVERSITY, GUNUPUR – 765022

B. Tech (Eight Semester - Regular) Examinations, April- 2024

## **BPEBT8010 - IPR**, Bioethics and Biosafety

(Biotechnology)

Maximum: 70 Marks

The figures in the right hand margin indicate marks. PART – A: (Multiple Choice Questions)				(1 x 10 =10 Marks)	
<u>Q.1</u>	. Answer ALL questions		[CO#]	[PO#]	
a.	Which of the following can be patented		CO1	PO4	
	(i) Machine	(ii) Process			
	(iii) Composition of matter	(iv) All of the above	<b>G ( 1</b>	201	
b.	Which of the following is (are) included in Geog	-	CO1	PO6	
	(i) Handicraft	(ii) Food stuff			
c.	(iii) Manufactured How long do a patent usually last for?	(iv) All of the above	CO1	PO4	
U.	(i) 10 years	(ii) 30 years	001	101	
	(iii) 20 years	(iv) 40 years			
d.	How many types of compulsory licenses are pro	· · ·	CO2	PO6	
	(i) Four	(ii) One			
	(iii) Two	(iv) Three			
e.	Patent act was passed in the year		CO2	PO6	
	(i) 1970	(ii) 1972			
	(iii) 1986	(iv) 1932			
f.	Patent application contains		CO2	PO6	
	(i) Application form	(ii) Complete specification			
	(iii) Declaration of inventor	(iv) All of the above			
g.	Eye protection is required in the lab when lab members are exposed to		CO3	PO6	
	(i) Flying particles	(ii) Gases and vapours			
	(iii) Injurious light (e.g. UV radiation)	(iv) All of the above.			
h.	Which of the following practices should be utiliz			PO7	
	(i) Disinfect the work surface of the BSC	(ii) Disinfect all items which go into and con	ne		
	before and after work	out of the BSC			
i.	(iii) Do not store any items in the BSC GEAC stands for	(iv) All of the above.	CO4	PO7	
1.	(i) Genetic Ethical Approval Committee	(ii) Genetic Engineering Active Commission	004	10/	
	(ii) Genetic Engineering Approval Committee	(iv) Genetic Ethical Active Commission			
j.		e used to regulate our activities concerning t	he CO4	PO7	
5	biological world.				
	(i) Bio-piracy	(ii) Bioethics			
	(iii) Biosafety	(iv) Bio-patents			

PART – B: (Short Answer Questions)			(2 x 10=20 Marks)		
Q.2. Answer ALL questions		CO#]	[PO#]		
a. What do you mean by the term 'Industrial Design'?	C	201	PO6		
b. What is trade secret?	C	201	PO4		
c. Why GMO need patent right?	C	201	PO6		
d. What is utility patent?	C	202	PO2		
e. Mention few national and international patent data bases.	C	202	PO6		
f. What is the benefit of provisional patent application?	C	202	PO4		
g. Write principles of good laboratory practices.	C	203	PO6		
h. How decontamination process is done?	C	203	PO7		
i. What is the difference between ethics and bioethics?	C	204	PO8		
j. Comment on significance of bioethics.	C	204	PO8		
PART – C: (Long Answer Questions) (10 x 4=40 Marks)					
Answer ALL questions		[CO#]	[PO#]		
3. a. What is intellectual property right? Describe various IPRs with examples.		CO	1 PO4		

3. a.	What is intellectual property right? Describe various IPRs with examples.	2+8	COI	P04		
	(OR)					
b.	Discuss on GMOs and its protection.	5	CO1	PO6		
c.	Briefly describe WTO and its role in economic development.	5	CO1	PO6		
4. a.	Describe the patent drafting and filing process in India.	10	CO2	PO2		
(OR)						
b.	Discuss on patent disclosure and non-disclosure agreement.	5	CO2	PO2		
c.	Discuss the case study on neem.	5	CO2	PO4		
5. a.	Discuss on recommended biosafety levels for Infectious animals.	10	CO3	PO6		
	(OR)					
b.	Give a note on RCGM and GEAC.	5	CO3	PO7		
c.	Explain "Risk assessment and management is an important biosafety step in	5	CO3	PO6		
	R&D".					
6. a.	Describe various ethical conflicts in research and biological science?	10	CO4	PO8		
	(OR)					
b.	Justify ethics in clinical trials and GCP is important?	5	CO4	PO4		
c.	Discuss the value of ethics in ELSI and human genome project.	5	CO4	PO8		

--- End of Paper ---