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QPC: RM17001081

GIET MAIN CAMPUS AUTONOMOUS GUNUPUR - 765022

B. Tech Degree Examinations, May – 2021

(Eighth Semester)

BBTPE8011- IPR, Bioethics and Bio safety

(Biotechnology)

Time: 2 hrs Maximum: 50 Marks

The figures in the right hand margin indicate marks.

PART – A: (Multiple Choice Questions) $(1 \times 10 = 10 \text{ Marks})$ Q.1. Answer ALL questions [CO#] [PO#] a. Intellectual Property Rights (IPR) protect the use of information and ideas that 1 1 (i) Ethical value (ii) Moral value (iii) Social value (iv) Commercial value b. In 'quid-pro-quo', quo stands for 1 1 (i) knowledge disclosed to the (ii) monopoly granted for the term of public the patent (iv) None of the above (iii) exclusive privilege of making, selling and using the invention c. Patent application can be filed in India by 2 1 (i) True and First Inventor (ii) Assignee of the inventor (iii) Legal representative of the (iv) All the above inventor d. Patent application contains 2 1 (i) Form-1 (ii) Form-2 (iii) Both (a) and (b) (iv) None e. When working with infectious biological material, the best place to perform 3 1 the work would be: (i) In a Biological Safety Cabinet (ii) On the laboratory bench (iii) On a clean bench, wearing a dust (iv) In a Fume Hood mask f. Biosafety is working safely with biological material or organisms with 3 1 potential to cause disease in (ii) Plants (i) Animals (iii) Humans (iv) All the above g. For research that requires Biosafety Level 2 containment, Biological Safety 1 3 Cabinets must be certified by the Investigator: (i) Daily (ii) Monthly (iii) Annually (iv) Never, it's someone else's problem h. Regarding the concept of bioethics which of the following statement is false? 1 (i) It has to do only with cloning and (ii) euthanasia Bioethics is the same as Medical ethics (iii) It has to do with moral (iv) It has to do with all aspect of dimension of Medical care Medical care

i.	Which is the least important to bioethics? (i) Personal preference of healthcare (ii) National laws Provider exclusive of Patient's		4	1
	(iii) Health Professional bodies (iv) Ethical theories			
j.	regulations The core principle of bioethics are the following except (i) Malefisence (ii) Autonomy (iii) Justice (iv) Beneficence		4	1
P	ART – B: (Short Answer Questions)	$(2 \times 5 =$	10 Mai	rks)
Q.2.	Answer ALL questions	[(CO#]	[PO#]
a.	What remedies are available to redress Intellectual property (IP) infringement	nt?	1	1
b.	How does the international community coordinate Intellectual property (protection	(IP)	1	1
c.	Why could a patent be invalidated after it has been granted?		2	1
d.	What is the function of biosafety cabinet?		3	1
e.	Explain "Risk assessment as an important biosafety step in R&D".		4	1
	PART – C: (Long Answer Questions) (6	x 5 = 30	Marks)
Ansv	PART – C: (Long Answer Questions) Wer ANY FIVE questions (6)	x 5 = 30 Marks	Marks) [PO#]
Ansv	wer ANY FIVE questions			
	wer ANY FIVE questions Explain in detail about the role Intellectual property rights (IPR) in	Marks	[CO#]	[PO#]
3.	wer ANY FIVE questions Explain in detail about the role Intellectual property rights (IPR) in development of economy of a nation. What equips the Trade Related Intellectual property rights (TRIPS) as	Marks (6)	[CO#]	[PO#]
3.	Explain in detail about the role Intellectual property rights (IPR) in development of economy of a nation. What equips the Trade Related Intellectual property rights (TRIPS) as more effective tool to protect the rights of an inventor and explain it? With the help of an appropriate example, discuss patenting of micro-	Marks (6) (6)	[CO#] 1	[PO#] 1
3.4.5.	Explain in detail about the role Intellectual property rights (IPR) in development of economy of a nation. What equips the Trade Related Intellectual property rights (TRIPS) as more effective tool to protect the rights of an inventor and explain it? With the help of an appropriate example, discuss patenting of microorganisms Write down in detail about the procedure of patent granting in India.	Marks (6) (6) (6)	[CO#] 1 1 2	[PO#] 1 1
3.4.5.6.	Explain in detail about the role Intellectual property rights (IPR) in development of economy of a nation. What equips the Trade Related Intellectual property rights (TRIPS) as more effective tool to protect the rights of an inventor and explain it? With the help of an appropriate example, discuss patenting of microorganisms Write down in detail about the procedure of patent granting in India. Explain biosafety guidelines by Government of India.	Marks (6) (6) (6) (6)	[CO#] 1 1 2 2	[PO#] 1 1 1
3.4.5.6.7.	Explain in detail about the role Intellectual property rights (IPR) in development of economy of a nation. What equips the Trade Related Intellectual property rights (TRIPS) as more effective tool to protect the rights of an inventor and explain it? With the help of an appropriate example, discuss patenting of microorganisms Write down in detail about the procedure of patent granting in India. Explain biosafety guidelines by Government of India. Discuss about the Genetically Modified Organisms (GMO) applications in food and agriculture.	Marks (6) (6) (6) (6) (6)	[CO#] 1 1 2 2 3	[PO#] 1 1 1 1 1

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