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B.TECH PCBT4404

8th Semester Regular / Back Examination 2016-17 IPR IN BIOTECHNOLOGY, BIOSAFETY AND BIOETHICS BRANCH: BIOTECH

Time: 3 Hours Max Marks: 70 Q.CODE: Z271

Answer Question No.1 which is compulsory and any five from the rest.

The figures in the right hand margin indicate marks.

Q1	a) b) c) d) e) f) g) h) i)	Answer the following questions: Define trade secret with examples. Define Industrial design with example. Differentiate between GMOs and LMOs. What are the different types of patent? Write down the characteristic features of biohazard? Differentiate between product patent and process patent. What is infringement? What is GCP? Define WIPO, WTO and GATT. What are the implications of PCT?	(2 x 10)
Q2	a) b)	Discuss the different types of IPR as per TRIPS agreement. Discuss the different recommended biosafety levels for infectious agents.	(5) (5)
Q3	a) b)	Discuss different requirements for international patenting. Discuss the recent amendments in Indian Patent Act 1970.	(5) (5)
Q4		Discuss the ethical, legal and social implications of human genome project.	(10)
Q5	a) b)	Write the importance of Budapest Treaty. Discuss Geographical indications with suitable examples.	(5) (5)
Q6	a) b)	Write a note on Ethics in Clinical trial. Discuss the Cartagena protocol.	(5) (5)
Q7	a) b)	Discuss the detail procedure of patent filing. Write a note on different remedies available against Patent Infringement.	(5) (5)
Q8	a) b) c)	Write Short Notes (Any Two): Copyright and related rights Public concern on transgenics Ethics in Human cloning	(5 x 2)

d) Environmental release of GMOs.