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Total Number of Pages: 01

B.TECH
PCBT4404

8th Semester Regular / Back Examination 2015-16
IPR IN BIOTECHNOLOGY, BIOSAFETY AND BIOETHICS

BRANCH: BIOTECH

Time: 3 Hours

Max Marks: 70

Q.CODE: W291

Answer Question No.1 which is compulsory and any five from the rest.
The figures in the right hand margin indicate marks.

- Q1** Answer the following questions: **(2 x 10)**
- a) Define ELSI of human genome project.
 - b) Define trade secrets.
 - c) Differentiate between GMOs and LMOs.
 - d) What are the different types of patent?
 - e) Write down the characteristic features of biohazard?
 - f) What is risk assessment?
 - g) Why Bioethics is necessary?
 - h) What is prior art?
 - i) Write the importance WIPO.
 - j) Write the importance of PCT.
- Q2** a) Discuss the different requirements of patentability in details. **(5)**
b) Discuss the different ethical issues involved in genetic testing. **(5)**
- Q3** a) Discuss the different remedies available in India against patent infringement? **(5)**
b) Classify different biosafety levels as per NIH guidelines. **(5)**
- Q4** Write in detail the procedure for filing a patent. **(10)**
- Q5** a) Write the importance of Budapest Treaty. **(5)**
b) Discuss traditional knowledge with suitable examples. **(5)**
- Q6** a) Write a note on the controversies associated with patent on Basmati Rice. **(5)**
b) Discuss the role of Institutional Biosafety Committee. **(5)**
- Q7** a) Discuss the importance of Cartagena Protocol in release of GMOs. **(5)**
b) Discuss briefly the different Biosafety Levels for infected animals. **(5)**
- Q8** Write Short Notes (Any Two) **(5 x 2)**
- a) Geographical indications
 - b) Public concern on human genome research
 - c) Ethics in clinical trials
 - d) Amendments to Indian Patent Act 1970.