

**B.TECH DEGREE EXAMINATIONS: NOV/DEC 2014**

(Regulation 2009)

Seventh Semester

**BIOTECHNOLOGY**

BTY124: IPR, Biosafety And Bioethics

**Time: Three Hours**

**Maximum Marks: 100**

**Answer all the Questions:-**

**PART A (10 x 1 = 10 Marks)**

1. For a patent to benefit from legal protection it must have
  - a) Scientific basis
  - b) Market Potential
  - c) Industrial Application
  - d) Approved by Scientists
2. It is possible for a new product to be protected using
  - a) Trademarks and Copyright
  - b) Copyrights and Patent
  - c) Registered designs
  - d) All of the above
3. Which of the following is must PCT application when there are multiple applicants in the international patent application?
  - a) At least one applicant must be a resident of PCT contracting state or nation
  - b) At least two applicants must be residents of PCT contracting state or nation
  - c) All must be residents of PCT contracting state or nation
  - d) None of the applicants needs to be a resident of PCT contracting state or nation
4. Which of the following are not patentable according to Indian Patent Act 1970.
  - a) A new drug formulation
  - b) Discovery of living thing occurring in Nature
  - c) Invention of an electronic gadget
  - d) Robotic application
5. What is the transmittal filing fee under PCT application
  - a) Rs. 17,600
  - b) Rs. 21,000
  - c) Rs. 50,000
  - d) Rs. 4,000
6. How long does a PCT process take?
  - a) 10 months
  - b) 12 months



**(OR)**

- b) Discuss in detail on Intellectual Property Rights in relevance to biotechnology.

22. a) (i) Summarize the Filing procedures of patent application. (7)  
(ii) Outline the precautions to be taken care of before patenting. (7)

**(OR)**

- b) Illustrate the procedure to be followed in searching the USPTO and EPO International Databases.

23. a) (i) Elaborate on the provisionals and complete specifications of patent application. (7)  
(ii) Explain the PCT and convention of patent application. (7)

**(OR)**

- b) Explain the requirements procedures and cost involved in international patenting.

24. a) Categorize the recommended biosafety levels for  
(i) Infectious agents and animals  
(ii) Specific microorganisms

**(OR)**

- b) Explain the role of biosafety committees for GMO applications in food and agriculture.

25. a) (i) Describe in detail on risk analysis. (7)  
(ii) Explain the procedure of risk assessment. (7)

**(OR)**

- b) Summarize the overview of national regulation and relevant international agreement pertaining to Bioethics.

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