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Total No. of Pages : 02

Total No. of Questions : 18

B.Tech. (BT) (2012 to 2017) (Sem.-4)
INTELLECTUAL PROPRIETARY RIGHTS BIOETHICS
AND BIOSAFETY

Subject Code : BTBT-405

M.Code : 55088

Time : 3 Hrs.

Max. Marks : 60

INSTRUCTION TO CANDIDATES :

1. SECTION-A is COMPULSORY consisting of TEN questions carrying TWO marks each.
2. SECTION-B contains FIVE questions carrying FIVE marks each and students have to attempt any FOUR questions.
3. SECTION-C contains THREE questions carrying TEN marks each and students have to attempt any TWO questions.

SECTION-A**Explain briefly :**

1. GMP and GLP
2. LMO and GMO
3. Rights of a patentee
4. PCT
5. List some inventions that are not patentable
6. Lab contaminants
7. Novelty and non-obviousness
8. Biosafety management
9. Patent litigation
10. Cartagena protocol

SECTION-B

11. Define bioethics? In which areas of biological sciences ethical values are important and why?
12. What criteria are used for assigning different levels of biosafety and biocontainment?
13. What is a patentable invention? What criteria it should fulfill?
14. What is Bt Brinjal? Why Govt. of India is not allowing its large-scale cultivation?
15. What is intellectual property and what are its different types? Explain. How it differs from tangible property?

SECTION-C

16. Define patent? What do you mean by provisional and complete specifications? Explain in detail.
17. Discuss any case study where biosafety norms were flouted leading to exposure of human beings to pathogen?
18. What ethical issues are of concern regarding prenatal sex determination of foetus and *in-vitro* fertilization?

NOTE : Disclosure of Identity by writing Mobile No. or Making of passing request on any page of Answer Sheet will lead to UMC against the Student.