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3 (Sem-3/CBCS) BIT HG/RC

2023

BIOTECHNOLOGY

(Honours Generic/Regular)

Paper : BIT-HG/RC-3016

(Bioethics and Biosafety)

Full Marks : 60

Time : Three hours

The figures in the margin indicate full marks for the questions.

1. Define the following terms : $1 \times 7 = 7$
- (a) Intellectual property
 - (b) Trade secret
 - (c) Bioethics
 - (d) Patent
 - (e) Tangible property
 - (f) Copyrights
 - (g) Biohazards

Contd.

2. Differentiate between : $2 \times 4 = 8$

- (i) Intellectual property and Industrial property
- (ii) Trademark and Trade secret
- (iii) Bioethics and Biosafety
- (iv) Process patent and Product patent

3. Write short notes on : **(any three)**
 $5 \times 3 = 15$

- (a) Concept of containment level
- (b) Good manufacturing practices
- (c) Ethical issues against molecular techniques
- (d) Biopiracy
- (e) Procedure of patent filing

4. Write **any three** from the following :
 $10 \times 3 = 30$

- (i) Discuss various biosafety issues in biotechnology.

(ii) What do you mean by patent litigation? What are the statutory laws exist in India pertaining to patent litigation? —Discuss. $2+8=10$

(iii) Discuss the roles played by World Trade Organization (WTO) with respect to intellectual properties of a nation.

(iv) Do Good Laboratory Practices (GLP) have to be adhered to while conducting safety studies to identify the possible drug abuse characteristics of a test article? Is it possible to obtain an exemption from specific provision of the GLP for special non-clinical laboratory studies? Discuss. What are the GLP requirements for labelling of reagents purchased directly from manufacturers? $2+4+4=10$

(v) Citing examples discuss the bioethics principle.

(vi) Discuss various national bioethics paradigms.