

Total number of printed pages – 4 **B. Tech**
CPBT 8404

Eighth Semester Examination – 2008

ETHICS AND IPR IN BIOTECHNOLOGY

Full Marks – 70

Time : 3 Hours

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

*The figures in the right-hand margin
indicate marks.*



1. Answer the following questions : 2 × 10
- (a) What is IBSC ? Write down the composition of IBSC for a biotechnology institute ?
- (b) What is geographical indication ? Name two examples of Indian geographical indications.

- (c) What is the duration of copyright protection in India ?
- (d) What are the patent requirements in biotechnology ?
- (e) Differentiate between 'PCT' and 'WIPO'.
- (f) What are the amendments related to biotechnology made in Indian Patent Amendment Act - 2005 ?
- (g) What do you mean by Industrial design ? How it differs from Trade mark ?
- (h) Define 'UPOV'. What is its significance ?
- (i) What is bio-piracy ? Name two examples of bio-piracy.
- (j) Name the Indian and European database for patent bibliography ?
2. (a) What is WTO ? Briefly explain the work structure of WTO. 4
- (b) What is the significance of 'Sui - generis system' in India ? 3

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Contd.

- (c) What are the remedies against infringement of a patent ? 3
3. What is Patent ? How many types of patents are there in Biotechnology ? Briefly explain the process of filing and obtaining patents in case of novel bio-product. 1+2+7
4. Briefly explain the ethical concerns of the following : 2.5×4
- (a) Monarch Butterfly
- (b) Golden Rice
- (c) Potato Famine
- (d) No till Agriculture.
5. (a) What is Human Genome Project ? Explain the ethical, legal and social implications addressed by Human genome project. 2+4
- (b) What is genetic counselling ? Will genetic counselling be provided in the course of genetic testing and genetic screening ? 2+2

6. (a) What is bioethics? Write down the guidelines of ethical decision-making process India. 1+4
- (b) Write down a short note on the applications of growth hormones in transgenic animals for the improvement of meat quality and milk production. 5
7. Write down short notes on any *two* of the following : 5×2
- (a) Indian Patent Act -1970
- (b) Cartagena Protocol on Biosafety
- (c) Convention on Biological Diversity.
8. What do you mean by TRIPs ? Briefly explain its requirement and implementation in developing countries including India ? What are the post-TRIPs expansionisms ? 2+4+4