

[A-47]

No. of printed page: [02]

-50

Sardar Patel University
Final Theory Examination, April '2016
PS10CIGGB4 - Biosafety, Bioethics and IPR

Date 5th April 2016, 10.30 am

Total marks: 70

Q.I Multiple choice questions (08)

- 1 The first International Statement on the ethics of medical research using human subjects formulated in 1947 was
 - a) Nuremberg Code
 - b) ICMR code
 - c) Edinberg Code
 - d) Helsinki Declaration
- 2 The Ethical, Legal, and Social Implications (ELSI) program was founded in 1990 as an integral part of the
 - a) Convention on Biological Diversity
 - b) Cartagena Protocol
 - c) Human Stem Cell Research
 - d) Human Genome Project
- 3 Organisms associated with human diseases, which are rarely serious and therapeutics are often available belong to _____
 - a) RG1
 - b) RG2
 - c) RG3
 - d) RG4
- 4 Many intellectual property are not patentable they are protected by
 - a) Trade Marks
 - b) Trade Secret
 - c) Copyright
 - d) All of above
- 5 _____ is a type of patent application for any improvement of invention after making complete specification
 - a) Additional
 - b) Conventional
 - c) Divisional
 - d) Ordinary
- 6 The term for the patent was increased to 20 year, it came into effect from
 - a) 2002
 - b) 2003
 - c) 2005
 - d) 1977
- 7 Budapest Treaty is for
 - a) Deposition of microorganism
 - b) Deposition of germ plasma
 - c) Stopping Bio-piracy
 - d) All the above
- 8 Sui generis is for the protection of
 - a) TK and genetic resources
 - b) GMO
 - c) Biodiversity
 - d) all of these

Q.II Answer the following (Any seven) (14)

1. Explain the statement "Fairness in Use of Genetic Information" with reference to Human Genome Project.
2. Define the role of monitor.
3. What is Genetic determinism?
4. Define Biopiracy.
5. Define Laboratory Acquired Infection. Mention various routes of transmission.
6. Give drawbacks of Patent and Trade secret.
7. What is a Patent infringement?
8. Write down the role of Patent Cooperation Treaty.

[P. T. O.]

9. What are Plant Breeder's Rights?
- Q.III (a) Discuss the bioethical conflicts in stem cell research. (06)
(b) Explain the unequal distribution of risks and benefits of biotechnology. (06)
- OR**
- (b) What are the objections and arguments in human cloning. (06)
- Q.IV (a) Explain in detail different Biosafety levels according to risk group organisms. (06)
(b) Discuss the role of various Indian agencies regulating biotechnology research in India? (06)
- OR**
- (b) Explain the types of containment. (06)
- Q.V (a) Write down patent application procedure in detail. (06)
(b) What is license? Explain various types of license agreements. (06)
- OR**
- (b) Describe various types of Patent application (06)
- Q.VI (a) Discuss the significance of traditional knowledge and why it is to be protected. (06)
(b) Write a note on (i) TRIPS OR (ii) WIPO (06)
