

[A-31, A-34]

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SARDAR PATEL UNIVERSITY
MSc (Integrated) Biotechnology, Tenth Semester Examination
Tuesday, 28th April 2015
10:30 am to 1:30 pm
PS10CIGGB4/PS10CIGMB4: Biosafety, Bioethics and IPR

Total Marks- 70

Note: i) Attempt all questions.
ii) Marks are indicated on the right hand side.

- Q.1 Answer the following Multiple Choice Questions. All are compulsory** **08**
1. "One should take positive steps to help others" define which of the following is principle of bioethics
a) Autonomy b) Justice c) Nonmaleficence d) Beneficence
 2. The Ethical, Legal and Social Implications (ELSI) program was founded in 1990 as an integral part of the
a) Convention of Biological Diversity b) Human Stem Cell Research c) Cartagena Protocol d) Human Genome Project.
 3. The permit for import or receipt of etiologic agents and vectors of human and animal disease in India is issued by
a) DBT b) RCGM c) MoEF d) GEAC
 4. Sui Generis framework is for the protection of
a) Framers rights b) Plant breeders right c) Traditional knowledge d) Bio-piracy
 5. A patent gives the owner the right to:
a) keep others from making her invention b) commercialize her invention c) collect a monetary award from the government d) Both a and b
 6. A patent awarded by the patent office in Japan is valid in:
a) Indonesia and its territories b) All ASEAN countries c) All countries that adhere to TRIPS d) Japan and its territories
 7. In patent law, the invention must have which of the following characteristics?
a) The invention cannot have been in use by others b) The invention must be a concrete thing that can be constructed c) The invention must be something new and be invented by the inventor herself d) All of the above.
 8. Why would someone choose to incur the time and cost of obtaining a patent for an invention?
a) The right to exclusive property in the invention for 20 years b) The right to exclusive property in the invention for 17 years c) The right to make money off the invention d) The right to exploit the invention indefinitely without any competition.

P.T.O

Q.2	Attempt Any Seven of the following:	14
1.	What is subject code?	
2.	What is Genetic determinism?	
3.	Give WHO classification of etiologic agents.	
4.	What is laboratory Acquired Infection. Which are the various routes of transmission.	
5.	Give drawback of Patent and Trade secret.	
6.	Explain exclusive licenses.	
7.	What is infringement? Explain types of patent infringement	
8.	What is PCT.	
9.	What is Plant breeder's rights.	
Q.3 A	Discuss the ICMR code for " Statement of General Principles on Research using Human Subjects".	06
Q.3 B	Explain the unequal distribution of risk and benefits of biotechnology.	06
	OR	
Q.3 B	Define Bioethic. Discuss principle of Bioethic	06
Q.4A	How is research in biotechnology regulated in India?	06
Q.4 B	How is risk assessment done?	06
	OR	
Q.4B	What are the ethical issues in cloning human?	06
Q.5 A	Draw the flow chart and explain various steps involved for the grant of patent	06
Q.5 B	Explain various types of patent applications in India.	06
	OR	
Q.5 B	Discuss the grounds, strategy and protocol for patent opposition.	06
Q.6A	Explain bioprospecting and Biopiracy.	06
Q.6 B	Write note on	06
	i. WIPO	
	ii. TRIPS	
	OR	
Q.6B	Discuss the significance of traditional knowledge and why its to be protected.	06