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A-12/A-13/A-14 SEAT No. _____

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Sardar Patel University
Final Theory Examination, Marc-2019

M.Sc. Integrated Biotechnology (EBT/IBT/MBT) Semester X
PS10CIGEB4/ PS10CIGIB4/ PS10CIGMB4 – Bioethics, Biosafety and IPR
PS10CIGGB04 Tuesday, 26th March 2019

Time: 10:00 am to 1:00 pm

Maximum marks: 70

Q.1

Multiple choice questions:

(08)

- 1 In 1964, the World Medical Association formulated guidelines on conducting research on humans, known as _____
 - a) The Declaration of Helsinki
 - b) The Nuremberg Code
 - c) The Belmont Report
 - d) The Drugs and Cosmetics Act
- 2 An experiment in which information about the test is kept from the participant until after the test is called as
 - a) single blind
 - b) double blind
 - c) Placebo effect
 - d) none of the above
- 3 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
- 4 When did convention on biological diversity entered into effect?
 - a) December 29, 1993
 - b) January 29, 1993
 - c) February 29, 1993
 - d) March 29, 1993
- 5 The Duration of protection for design patent is _____.
 - a) 18 years
 - b) 20 years
 - c) 10 years
 - d) 15 years
- 6 The international organization providing guidelines is IPR is
 - a) WTO
 - b) OECD
 - c) WIPO
 - d) TRIPS
- 7 Where is the head quarter of WTO?
 - a) Zurich
 - b) Geneva
 - c) Paris
 - d) London
- 8 Under what circumstances any plant variety is called a "New Variety"?
 - a) not been commercialized for more than one year
 - b) distinct by one or more characteristics
 - c) it is stable and hybrid variety
 - d) All of the above

①

(P.T.O.)

Q.II Answer the followings (Any 7) (14)

1. Write down the general principles of Bioethics.
2. What is Good Clinical Practices (GCP)?
3. Describe the role of RCGM.
4. Define: Containment and Biosafety
5. Write about classification of risk group according to pathogen
6. What do you mean by infringement.
7. Enlist the characteristics of patent as intangible property.
8. Write down the goal of convention on biodiversity
9. What is Bioprospecting and Biopiracy?

Q.III (a) Discuss the ethical issues in human cloning. (06)

(b) Discuss the events briefly that led to formulation of international guidelines for research on human subjects. (06)

OR

(b) Write a note on ethical conflicts in Agricultural biotechnology (06)

Q.IV (a) Give salient features of Biosafety guidelines in India. (06)

(b) Describe types and elements of containment in detail. (06)

OR

(b) Enlist and discuss the role of various authorities/agencies regulating Biotechnology research in India. (06)

Q.V (a) Enlist and discuss various types of Intellectual property rights. (06)

(b) Explain in detail about types of patent applications in India. (06)

OR

(b) Write a note on legislation on IPR in India (06)

Q.VI (a) What does WTO stand for? What are its main functions? (06)

(b) Describe in detail about Budapest Treaty and Paris Convention. (06)

OR

(b) Give an account on National biodiversity Authority (06)

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(2)