

SEAT No. \_\_\_\_\_

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Sardar Patel University  
Final Theory Examination, April '2018  
M.Sc. Integrated Biotechnology (1<sup>st</sup> Sem) Semester X  
PS10CIGGB4 – Bioethics, Biosafety and IPR  
Tuesday, 17<sup>th</sup> April 2018

Time: 10:00 am to 1:00 pm

Maximum marks: 70

- Q.1 Multiple choice questions: (08)
- 1 The Ethical, Legal, and Social Implications (ELSI) program was founded in 1990 as an integral part of the  
a) Convention on Biological Diversity                      c) Human Stem Cell Research  
b) Cartagena Protocol    d) Human Genome Project
  - 2 Which is the property of stem cells?  
a) Plasticity    c) Develop into many diverse cell types  
b) Self-renewal    d) All of above
  - 3 The convention on biological diversity on biosafety entered into effect on \_\_\_\_\_.  
(a) Dec. 29<sup>th</sup> 1993    (b) Dec. 20<sup>th</sup> 1983  
(c) Dec. 19<sup>th</sup> 2003    (d) Jan. 28<sup>th</sup> 2013
  - 4 Non-transgenic plants should be grown within the isolation distance of \_\_\_\_ meter intervals to determine the distance of pollen escape  
(a) 5    (b) 10  
(c) 15    (d) 20
  - 5 A person is entitled to apply for patent if he is  
a) True and first inventor    c) legal representative of the person  
b) An assignee of the true and first inventor                      d) all of these
  - 6 The Patent office falls under the ministry of  
a) Human Resource Development                      c) Science and Technology  
b) Commerce and Industry                                      d) Finance Ministry
  - 7 Direct payments made by the government to domestic companies to encourage exports or to protect them from imports are known as —  
a) Voluntary export restraints                                      b) Subsidies  
c) Aids    d) Export tariffs
  - 8 \_\_\_\_\_ is on the International Recognition of the Deposit of Microorganisms for the Purposes of Patent Procedure  
a) Paris convention    c) Doha declaration  
b) Budapest Treaty    d) TRIPS

[P.T.O.]

- Q.II**      **Answer the followings (Any 7)**      **(14)**
1. Explain the statement "Fairness in Use of Genetic Information" with reference to Human Genome Project
  2. What is Genetic determinism?
  3. What is risk assessment?
  4. Write in brief about Host vector system.
  5. Define : rDNA & biosafety
  6. Differentiate between tangible and intangible properties.
  7. What are the basic requirements of patentability?
  8. Narrate the role of TRIPS.
  9. Define: Biopiracy and Biodiversity.
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- Q.III**      (a) Discuss with examples, the need for formulating guidelines to conduct medical research on human subjects.      **(06)**
- (b) Write about Bioethical conflicts in biotechnology research      **(06)**
- OR**
- (b) Discuss ethical issues in human cloning      **(06)**
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- Q.IV**      (a) Describe role of RCGM, GEAC and OECD.      **(06)**
- (b) Write a detail note on types and elements of containment.      **(06)**
- OR**
- (b) Explain in detail about biosafety levels according to risk group organisms      **(06)**
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- Q.V**      (a) Describe in detail about types of patent application.      **(06)**
- (b) What is patent infringement? Explain types of Infringement in detail.      **(06)**
- OR**
- (b) Write a note on types of IPR.      **(06)**
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- Q.VI**      (a) Explain trademarks and geographical indications.      **(06)**
- (b) Explain protection of plant varieties and Farmers Right Act.      **(06)**
- OR**
- (b) Write a detail note on Convention on Biodiversity.      **(06)**

