



**DII-003-013403**

Seat No. \_\_\_\_\_

**M. Sc. (Sem. IV) (CBCS) Examination**

**May / June - 2015**

**BT - 421 : Biotechnology  
(Socio Economic Aspects & IPR)**

**Faculty Code : 003**

**Subject Code : 013403**

Time : 3 Hours]

[Total Marks : 70

**1. Answer any Seven out of ten -**

**2x7**

**i. Which of the following principle is applicable to trademark-**

- a) A trade mark should not cause confusion with previous trademark
- b) A trademark should not be deceptive
- c) A trademark should be capable of distinguishing goods or services.
- d) All of the above

**ii. Where is it possible in some instances for a patent to be extended?**

- a). The automotive industry
- b). The computer software and hardware industries
- c). In universities
- d). The pharmaceutical industry

**iii. Biodiversity hot spots are recognized on the basis of**

- a). Their proximity to national parks and reserves,
- b). The number of endemic species they contain.
- c). The degree of threaten.
- d). b & c only

**vi. Eutrophication is caused by runoff containing nutrients that does what to kill fish in a lake?**

- a). Algae overproduce and die; bacteria use up all the oxygen so fish die
- b). Algae overproduce and crowd out fish and other species
- c). Fish overproduce and eat all possible sources of food then starve
- d). Algae overproduce oxygen, which is toxic to fish in high quantities

**v. The potential risk of GM food to human health determined?**

- a) Direct health effects
- b) Tendencies to provoke allergic reaction
- c) Specific components thought to have nutritional or toxic properties;
- d) All of the above

**vi. Laboratories that research microbes not known to consistently cause disease in healthy adults require which microbiological practices?**

- a) Biosafety Level 1 practices
- b) Biosafety Level 2 practices
- c) Biosafety Level 3 practices
- d) Biosafety Level 4 practices

**vii. The patentability of biotechnological inventions is limited in which of the following ways?**

- a) Genetic sequences on their own cannot be patented.
- b) Patents relating to human genes cannot be patented.
- c) Inventions that cause suffering to humans or animals cannot be patented.
- d) Patents that relate to medical treatment cannot be patented.

**viii. IUCN (International Union for Conservation of Nature & Natural Resources) is also known as**

- a) Man and Biosphere Programme
- b) World Conservation Union
- c) World Conservation Consortium
- d) World Wide Conservation Union

**ix. Give an example of biosphere reserve of India.**

- a) Corbett Park
- b) Kawal
- c) Sundervan
- d) Guindy

**x. Bandipur national park is situated in-**

- a).Madhyapradesh
- b).Karnataka
- c).Maharashtra
- d).Tamilnadu

**2. Write the answer of any two-**

[7x2]

a. What is Biodiversity? Explain levels of Biodiversity in brief?

[7]

b. Write on any two in brief?

[7]

i. Biosphere reserve

[2]

ii. Hot Spot

[2]

iii. Ex-Situ Conservation.

[3]

c. Write the reason for loss of Biodiversity? What is Red data book? Classify the threatened species with few examples.

[7]

**3. Write the answer of following question--**

[7x2]

a. What is patent? Write the criteria for granting patent? Give the name of different patent information system in India?

b. Define copyright? Why should copyright be protected? What are the thing come under copyright act?

**OR**

**3. Write short notes on all-**

a. Trade secret

[5]

b. Major goal of WIPO

[5]

c. Action Plan for Implementing Safety Practices

[4]

**4. Write any two out of three-**

[7x2]

a. Describe the various level of Biosafety. What is need for Biosafety regulation study?

b. Discuss Patent specification in detail?

c. Define GMO. Write the risks associated with GMO (Genetically modified organism).

**5. Write answer any two out of four -**

[7x2]

a. What is diversity index? Explain about any diversity index to describe diversity in the species?

b. Define Intellectual Property & Intellectual Property Rights. Briefly describe various forms of Protection of Intellectual Property. Discuss merits & demerits of IPR.

c. Discuss the issues relating to the right of plant breeders & farmers.

d. Write various nodal agencies and its function on Biosafety regulation?