



PS-003-1134002

Seat No. _____

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

August - 2020

BT - 419 : Socio-Economic Aspects & IPR

(Elective)

Faculty Code : 003

Subject Code : 1134002

Time : $2\frac{1}{2}$ Hours]

[Total Marks : 70

1 Answer any seven out of ten : 2×7=14

- (i) Which principle is applicable to trademark?
- (ii) Where is it possible in some instances for a patent to be extended?
- (iii) On what basis the Biodiversity hot spots are recognized ?
- (iv) Eutrophication is caused by runoff containing nutrients that does what to kill fish in a lake?
- (v) Write the potential risk of GM food to human health.
- (vi) Laboratories that research microbes not known to consistently cause disease in healthy adults require- which microbiological practices?
- (vii) Write the limitation of the patentability of biotechnological inventions.
- (viii) Write another name for IUCN (International Union for Conservation of Nature & Natural Resources).
- (ix) Give an example of biosphere reserve of India.
- (x) Bandipur National Park is situated in which state?

2 Write the answer of any two : 7×2=14

- (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 : **7×2=14**
- (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 things come under Copyright Act?
- OR**
- 3** Write short notes on all : **7×2=14**
- (a) Trade secret 5
- (b) Major goal of WIPO 5
- (c) Action Plan for Implementing Safety Practices 4
- 4** Answer the following questions : **7×2=14**
- (a) Describe the various level of Biosafety. What is need for Biosafety regulation study?
- (b) Define GMO. Write the risks associated with GMO (Genetically modified organism)
- 5** Write answer any **two** out of four : **7×2=14**
- (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?