



BBB-003-1134002 Seat No. _____

**M. Sc. (Biotech) (Sem. IV) (CBCS) (W.E.F. 2016)
Examination**

July – 2021

BT-419 : Socio Economic Aspects & IPR

Faculty Code : 003

Subject Code : 1134002

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

[Total Marks : 70

Instruction : Answer any **Five** of the following questions.

- 1 Answer the following : (each 02 marks) 14
- (a) What is a Gene Bank?
 - (b) What is IPR?
 - (c) What is germplasm?
 - (d) What is agricultural biodiversity?
 - (e) What is a patent?
 - (f) What is the level/range of economic benefits for farmers in cultivation of medicinal plants?
 - (g) What is Erythropoietin?
- 2 Answer the following : (2 marks each) 14
- (a) Define biodiversity.
 - (b) Are IP rights territorial in nature?
 - (c) Comment on the terms "Patent Pending" or "Patent Applied".
 - (d) What are Transgenic organisms?
 - (e) When did the concept of Farmers' Rights first appear?
 - (f) Who can apply for a patent?
 - (g) What is the range of economic benefits for farmers in cultivation of medicinal plants?

- 3** Answer the following : (7 marks each) **14**
- (a) Elucidate steps to preserve biodiversity.
 - (b) What is *in situ* & *ex situ* conservation? Explain.
- 4** Answer the following : (7 marks each) **14**
- (a) Write a note on role of private sectors in conservation of bioresources.
 - (b) Comment on "*ex situ* conservation efforts at international level".
- 5** Answer the following : (7 marks each) **14**
- (a) "Public debate is important on GMO" Justify.
 - (b) Write a note on radiation safety.
- 6** Answer the following : (7 marks each) **14**
- (a) Write a note on "Biosafety regulation and guideline on developing GMO".
 - (b) What precautions are necessary when using GMOs?
- 7** Answer the following : (7 marks each) **14**
- (a) What are the different types of IPR? Discuss importance of IPR.
 - (b) What is your argument on patenting of live form?
- 8** Answer the following : (7 marks each) **14**
- (a) Give your critical comments on patenting plant genetic resources.
 - (b) Discuss pros and cons of Patenting of genes and DNA sequences.

9 Answer the following : (Any two out of four, each of 07 marks) **14**

- (a) Write a note on breeder's and farmer's right.
- (b) What do you mean by sustainable development?

10 Answer the following : **14**

- (a) Discuss patenting of higher plants and animals.
- (b) What are the provisional and complete specifications?
