



NBW-003-013403 Seat No. _____

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

Examination

April / May - 2017

BT - 421 : Socio - Economic Aspects & IPR

Faculty Code : 003

Subject Code : 013403

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

[Total Marks : 70

Instructions :

- (1) All questions are compulsory.
- (2) Support your answers with suitable illustration where required.

1 Answer the any seven out of ten right : **2×7**

- (i) Write four reason for loss of biodiversity.
- (ii) What is cryopreservation ?
- (iii) Define risk assessment.
- (iv) Define Patent and its major requirement for patentability.
- (v) What is adaptation work ? Give one example.
- (vi) What was the main theme of Madrid Agreement ?
- (vii) How trademark is differ from service mark ?
- (viii) Why patent search is needed ?
- (ix) What is UPOV ?
- (x) What is Budapest treaty ?

2 Answer any two out of three : **7×2**

- a. What is major difference between Ex-situ and In-situ conservation ? Describe five methods of Ex-situ conservation of Biodiversity.
- b. Discuss the global history of patent with special reference to landmark treaties in IPR. Write the major goal of WIPO.

- c. Write the name of any three agencies and their function in biosafety regulation in detail.

- 3** Answer the following : **7×2**
- a. What is the legal requirement for Trademark ? Write the different ways for protection of Trademark.
- b. Describe the different level of Biosafety in detail.

OR

- 3** Answer any two : **7×2**
- a. Write the components of complete Specification of Patent in detail.
- b. Discuss in detail the biosafety guidelines and regulations for release of genetically engineered microorganisms.

- 4** Answer the following : **7×2**
- a. Write the role of biodiversity in social and economic development.
- b. What is copyright ? What are the rights in the case of a literary work ? Give an outline of structural organizational of copyright office.

- 5** Answer any two of the following : **7×2**
- a. Describe two major international organizations and their role in ex-situ conservation effort.
- b. What is GMO ? Discuss various risk associated with GMO ?
- c. What are plant breeder's rights ? How do they differ from patents ?
- d. Enlist the patentable and non-patentable inventions in Biotechnology. Give the detail of patenting with special reference of Hybridoma Technology.