

**Exam. Code : 107405**

**Subject Code : 1857**

**B.Sc. Biotechnology 5th Semester**

**PATENT LAWS IN BIOTECHNOLOGY**

**Paper—BT-4**

Time Allowed—3 Hours]

[Maximum Marks—40

**Note :—Section-A :** All questions are compulsory. Each question carries 1 mark ( $1 \times 8 = 8$ ).

**Section-B :** Attempt any FIVE questions. Each question carries 4 marks ( $4 \times 5 = 20$ ).

**Section-C :** Attempt any TWO questions. Each question carries 6 marks ( $6 \times 2 = 12$ ).

**SECTION—A**

1. Why filing date is important in case of patent ?
2. Who is authorized to grant patent in India ?
3. Are gene sequences patentable in India ?
4. What is the role of Review Committee on Genetic Manipulation (RCGM) ?
5. What is the life of patent ? What happens after its expiry ?
6. Give one example of Patent related to Medicinal Plant from India ?

7. What do you mean by Post Grant Opposition of patent ?
8. What is the significance of Patent Cooperation treaties ?

### SECTION—B

1. Discuss the legal aspects related to patenting in Biotechnology ?
2. What is patent infringement ? How infringement of patent be challenged and redressal sought ?
3. What is copy right ? How is it different from patent ?
4. Write a note on the history of Indian patenting system and the significant amendments incorporated.
5. What do you understand by provisional and complete specifications ? What are the advantages offered while filing provisional specifications ?
6. How patent writing is different from writing a research article ? What criterion qualify an innovation to be patentable ?
7. Explain different inventions which are non patentable in India ?
8. Write a note on principles of TRIPS agreement ? How it protects plant breeder's right ?

**SECTION—C**

1. Briefly discuss various kinds of Biotechnological inventions which are patentable ? Why is it made mandatory to deposit the microbes in the national depository ? Name any two such centres.
2. Write a note on risk associated with release of genetically modified microorganisms with reference to Bio safety. Ecological impact and Environment concern.
3. What is a patent and who is patentee ? What are the main criteria for filing a patent ? What rights patentee derives by sharing his invention through patent filing and securing ?
4. What is meant by Intellectual Property Rights ? Explain different types of IPR and how they are protected giving suitable examples.