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2026

2nd Semester Examination

M.F.Sc. in Aquaculture

Paper : FSC 505-T

[Intellectual Property and its Management in Agriculture]

Full Marks : 100 Time : Three Hours

The figures in the margin indicate full marks.
Candidates are required to give their answers in their own words as far as practicable.

Group - A

Answer any ***eight*** questions : 5×8=40

1. Define Intellectual Property Rights (IPR). Discuss different types of Intellectual Property Rights (IPR). 2+3

2. What is copyright? Mention the important works that can be protected under copyright. 2+3

3. Define Biopiracy. Give an example. What is Bioprospecting? 2+1+2

4. Differentiate between trade secret and patent. Provide suitable examples. 3+2

P.T.O.

5. Mention recent development in India Intellectual Property rights within the framework of biological science and aquaculture.

6. Define third-party manufacturing. What is an innovation? Cite an example from the fishery. 2+2+1

7. What is patent infringement? Distinguish between copyright and trademark. 2+3

8. What is Geographical Indication (GI)? Provide a suitable example.

9. Write short notes on : 2½+2½

   (a) Biodiversity hotspot

   (b) Marine National Park

10. What are the basic requirement for an invention to be patentable? Give an example related to Aquaculture. 3+2

11. Briefly discuss the Biological Diversity Act, 2002. State the management structure of the National Biodiversity Act. 3+2

12. Define layout design and industrial design. Give one example of each. 4+1

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Group - B

Answer any ***four*** questions : 10×4=40

13. What is technology licensing? Discuss the different types of technology licensing. Mention its role in agricultural innovation and sustainable development. 2+4+4

14. Briefly describe the protection of plant varieties and Farmers' Rights (PPV & FR) Act, 2001. State the major objectives of this Act. 5+5

15. What is traditional knowledge? Discuss different traditional knowledge systems (IKS) in India related to Fishery and aquaculture. How does India protect its traditional knowledge from biopiracy? 2+5+3

16. Discuss the major steps involved in the patent application process. Mention the important databases used for patent searching. 6+4

17. What is TRIPS Agreement? Describe the major provisions of the TRIPS Agreement. Write the significance of the TRIPS Agreement. 2+6+2

18. Discuss technology transfer and licensing in aquaculture, including technology disclosure, licence types, major agreement, clauses, confidentiality, material transfer, benefit sharing and commercialization. 5+5

[Internal Assessment : 20 marks]
