

PRACTICE SET

End Semester (IIIrd Sem.) Examination, December – 2025

Program: M.Sc. (Ag.) Agronomy

Semester: III

Course: Intellectual Property and Its Management in Agriculture

Course Code: 13A.CC.504

Course Outcomes:

At the end of the course the student will be able to:

- CO1** Acquire Skill to pursue the professional programs in Company Secretaryship, Law, Business, Agriculture, International Affairs, Public Administration and Other fields
- CO2** Develop procedural knowledge to Legal System and solving the problem relating to intellectual property rights
- CO3** Establishment of Legal Consultancy and service provider, Employability as the Compliance Officer, Public Relation Officer and Liaison Officer
- CO4** Apply Skill to understand the concept of intellectual property rights

Unit -I

Section: I (5 Marks questions, only Lower order Thinking -LOT)

S.N.	Question	Bloom Taxonomy	Course Outcome
1	Define Intellectual Property and explain its importance in agricultural innovation	Remember	CO1
2	Describe the need for introducing the Intellectual Property Rights regime in India.	Understand	CO1
3	Explain the role of GATT and WTO in global IPR management.	Understand	CO4
4	Differentiate between Intellectual Property and Intellectual Property Rights.	Remember	CO1
5	Discuss the historical development of Intellectual Property Rights.	Remember	CO1

Section-II (15 Marks questions, only higher order thinking - HOT)

S.N.	Question	Bloom Taxonomy	Course Outcome
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6	Analyze the evolution of the IPR system and explain how TRIPS has shaped agricultural research and innovation in India.	Analyze	CO1
7	Evaluate the global impact of WTO and WIPO on harmonizing intellectual property standards in agriculture.	Evaluate	CO4
8	Apply your knowledge of TRIPS to discuss the challenges developing countries face in implementing IP laws	Apply	CO1
9	Critically analyze how IPRs promote or hinder technology transfer in developing nations.	Evaluate	CO4
10	Design a conceptual model showing the interrelationship between GATT, TRIPS, and WIPO in the protection of agricultural innovations.	Create	CO1

Unit -II

Section: I (5 Marks questions, only Lower order Thinking -LOT)

S.N.	Question	Bloom Taxonomy	Course Outcome
11	Describe the salient features of the Patents Act, 1970.	Understand	CO2
12	Explain the importance of the Design Act, 2000 in protecting innovations.	Understand	CO2
13	Describe the key objectives of the National Biodiversity Act, 2003	Understand	CO2
14	Summarize the significance of Protection of Plant Varieties and Farmers' Rights (PPV&FR) Act, 2001.	Understand	CO2
15	Mention the significance of the Layout Design Act, 2000.	Remember	CO2

Section-II (15 Marks questions, only higher order thinking - HOT)

S.N.	Question	Bloom Taxonomy	Course Outcome
16	Analyze how various Indian IPR legislations collectively promote agricultural development.	Analyze	CO2
17	Apply the provisions of the Patents Act, 1970 to develop a case example of patent filing in agricultural biotechnology.	Apply	CO2
18	Evaluate the effectiveness of the PPV&FR Act, 2001 in protecting farmers' rights.	Evaluate	CO2
19	Compare and contrast patents, copyrights, and trademarks in terms of ownership, duration, and protection scope.	Analyze	CO2
20	Propose a framework to strengthen IPR awareness and enforcement among Indian farmers and agricultural entrepreneurs.	Create	CO2

Unit -III

Section: I (5 Marks questions, only Lower order Thinking -LOT)

S.N.	Question	Bloom Taxonomy	Course Outcome
21	Explain how intellectual property protection applies to agricultural biotechnology	Understand	CO3
22	Explain the term “duration of protection” for different IP categories.	Remember	CO3
23	Describe the need for protecting microorganisms and genetic materials under IPR.	Understand	CO3
24	Define protectable subject matter under IPR.	Remember	CO3
25	Interpret the key challenges faced in protecting biotechnological innovations.	Understand	CO3

Section-II (15 Marks questions, only higher order thinking - HOT)

S.N.	Question	Bloom Taxonomy	Course Outcome
26	Apply the principles of IPR to design a plan for protecting a newly developed genetically modified crop.	Apply	CO3
27	Analyze the implications of ownership rights over biological materials and genetic resources.	Analyze	CO3
28	Evaluate the ethical, legal, and social issues in biotechnology patenting.	Evaluate	CO3
29	Breakdown the role of the Convention on Biological Diversity (CBD) in safeguarding agricultural biodiversity and benefit-sharing.	Analyze	CO4
30	Propose strategies to improve protection and commercialization of biotechnological innovations in India.	Create	CO3

Unit -IV

Section: I (5 Marks questions, only Lower order Thinking -LOT)

S.N.	Question	Bloom Taxonomy	Course Outcome
31	Differentiate between a Research Collaboration Agreement and a License Agreement.	Understand	CO4
32	Describe the components of a good Material Transfer Agreement.	Remember	CO4

33	How does ITPGRFA contribute to global cooperation in plant genetic resource conservation?	Understand	CO4
34	Explain the importance of licensing agreements in agricultural biotechnology.	Understand	CO4
35	Explain the procedures for entering into a technology licensing agreement	Apply	CO4

Section-II (15 Marks questions, only higher order thinking - HOT)

S.N.	Question	Bloom Taxonomy	Course Outcome
36	Analyze the relationship between ITPGRFA and CBD in promoting equitable access to plant genetic resources.	Analyze	CO4
37	Evaluate the effectiveness of Material Transfer Agreements (MTAs) in safeguarding intellectual property.	Evaluate	CO4
38	Apply your understanding of licensing to prepare a sample outline of a technology transfer agreement in agriculture.	Apply	CO4
39	Assess the role of international treaties in balancing innovation with farmers' and breeders' rights.	Evaluate	CO4
40	Design a national policy model integrating licensing, MTAs, and collaboration agreements for agricultural research institutions.	Create	CO4

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Summary Sheet:

CO Wise

CO	Q. No	Marks
CO1	1,2,4,5,6,8,10	65
CO2	11,12,13,14,15,16,17,18,19,20	100
CO3	21,22,23,24,25,26,27,28,29,30	100
CO4	3,7,9,31,32,33,34,35,36,37,38,39,40	135
Total		400

Unit Wise

Unit	Q. No	Marks
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Unit 1	1 to 10	100
Unit 2	11 to 20	100
Unit 3	21 to 30	100
Unit 4	31 to 40	100
Total		400

Blooms Taxonomy Level (BTL) Wise

BTL	Q. No	Marks
LOT	1,2,3,4,5,11,12,13,14,15,21,22,23,24,25,31,32,33,34,35	100
HOT	6,7,8,9,10,16,17,18,19,20,26,27,28,29,30,36,37,38,39,40	300
Total		400

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<p>Disclaimer: - This is a practice set. The Question in End semester examination will differ from the practice set. This practice set is meant for practice only.</p>
