

SRM VALLIAMMAI ENGINEERING COLLEGE
(An Autonomous Institution)

SRM Nagar, Kattankulathur – 603 203

DEPARTMENT OF AGRICULTURAL ENGINEERING

QUESTION BANK



VII SEMESTER

PAG506 INTELLECTUAL PROPERTY RIGHTS IN AGRICULTURE

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SUBJECT: PAG 506 INTELLECTUAL PROPERTY RIGHTS IN AGRICULTURE

SEM / YEAR: 07 /IV

UNIT-INTRODUCTION- INTELLECTUAL PROPERTY RIGHTS

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Introduction, Types of Intellectual Property Rights-patents, plant varieties protection, geographical indicators, copyright, trademark, trade secrets.

PART - A

Q.NO	QUESTIONS	BT LEVEL	COMPETENCE
1.	Define Intellectual Property Rights (IPR).	BT-1	Remembering
2.	What are the objectives of Intellectual Property Rights?	BT-2	Understanding
3.	What is a patent?	BT-2	Understanding
4.	Mention any two criteria for patentability.	BT-1	Remembering
5.	What is meant by novelty in patents?	BT-2	Understanding
6.	Define inventive step in patent law.	BT-1	Remembering
7.	What is the duration of patent protection in India?	BT-2	Understanding
8.	What is meant by Plant Variety Protection (PVP)?	BT-2	Understanding
9.	State the objectives of the Protection of Plant Varieties and Farmers' Rights (PPV&FR) Act, 2001.	BT-1	Remembering
10.	Who is eligible to apply for registration of a plant variety?	BT-2	Understanding
11.	Define Geographical Indication (GI).	BT-1	Remembering
12.	Give examples of Geographical Indications from India.	BT-1	Remembering
13.	What are the benefits of GI registration?	BT-2	Understanding
14.	Define copyright.	BT-1	Remembering
15.	What types of works are protected under copyright?	BT-2	Understanding
16.	What is the duration of copyright protection in India?	BT-2	Understanding
17.	Define trademark.	BT-1	Remembering
18.	Differentiate between a trademark and a patent.	BT-2	Understanding
19.	What are service marks?	BT-2	Understanding
20.	What is trademark infringement?	BT-2	Understanding
21.	Define trade secret.	BT-1	Remembering
22.	Give two examples of trade secrets.	BT-1	Remembering
23.	How are trade secrets protected?	BT-2	Understanding
24.	Distinguish between registered and unregistered intellectual property.	BT-2	Understanding
25.	What is the role of the World Intellectual Property Organization (WIPO)?	BT-2	Understanding

PART – B

Q.NO	QUESTIONS	BT LEVEL	COMPETENCE
1.	Explain the concept, importance, objectives, and scope of Intellectual Property Rights in detail.	BT-3	Applying
2.	Discuss the different types of Intellectual Property Rights and their significance in innovation and economic development.	BT-4	Analysing
3.	Describe the patent system in India, including patentability criteria, application procedure, rights of patentees, and limitations.	BT-4	Analysing
4.	Explain the process of obtaining a patent in India and discuss the rights and obligations of patent holders.	BT-3	Applying
5.	Elaborate on the Protection of Plant Varieties and Farmers' Rights (PPV&FR) Act, 2001, highlighting breeders' rights and farmers' rights.	BT-3	Applying
6.	Discuss the registration procedure, benefits, and challenges associated with Plant Variety Protection in India.	BT-4	Analysing
7.	Define Geographical Indications (GI) and explain the registration process, legal protection, and significance of GI products.	BT-3	Applying
8.	Discuss the economic and social importance of Geographical Indications with suitable Indian examples.	BT-4	Analysing
9.	Explain the concept of copyright, types of works protected, duration of protection, and remedies against infringement.	BT-3	Applying
10.	Discuss the Copyright Act in India and explain the rights of authors, owners, and users of copyrighted works.	BT-4	Analysing
11.	Define trademark and explain the procedure for trademark registration, protection, and enforcement in India.	BT-3	Applying
12.	Differentiate between patents, trademarks, copyrights, and geographical indications with suitable examples.	BT-4	Analysing
13.	Discuss trademark infringement and passing off, including legal remedies available under Indian law.	BT-4	Analysing
14.	Explain the concept of trade secrets, methods of protection, advantages, and limitations with examples.	BT-3	Applying
15.	Compare patents and trade secrets as mechanisms for protecting innovations and confidential business information.	BT-4	Analysing
16.	Discuss the role of international organizations and agreements such as World Intellectual Property Organization and World Trade Organization in the protection of intellectual property rights.	BT-4	Analysing
17.	Evaluate the importance of Intellectual Property Rights in agriculture, biotechnology, plant breeding, and rural development with suitable examples.	BT-4	Analysing

UNIT-II PATENTS

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Patents-Objective, Introduction, Requirement for patenting- Novelty, Inventive step (Non obviousness) and industrial application (utility), Non-patentable inventions, rights of patent owner, assignment of patent rights, patent specification (provisional and complete), parts of complete specification, claims, procedure for obtaining patents, compulsory license.

PART - A

Q.NO	QUESTIONS	BT LEVEL	COMPETENCE
1.	Define a patent.	BT-1	Remembering
2.	What is the main objective of the patent system?	BT-2	Understanding
3.	What are Intellectual Property Rights (IPRs)?	BT-2	Understanding
4.	Who grants patents in India?	BT-2	Understanding
5.	What is meant by an invention?	BT-2	Understanding
6.	Define novelty in patent law.	BT-1	Remembering
7.	What is meant by an inventive step?	BT-2	Understanding
8.	Explain the term non-obviousness.	BT-2	Understanding
9.	What is industrial applicability (utility)?	BT-1	Remembering
10.	Mention the three essential requirements for patentability.	BT-1	Remembering
11.	What is prior art?	BT-2	Understanding
12.	Give two examples of patentable inventions.	BT-1	Remembering
13.	Mention any two non-patentable inventions under the Indian Patent Act.	BT-1	Remembering
14.	What is a frivolous invention?	BT-2	Understanding
15.	What are the exclusive rights of a patent owner?	BT-2	Understanding
16.	What is patent infringement?	BT-2	Understanding
17.	Define assignment of patent rights.	BT-1	Remembering
18.	What is meant by a patent specification?	BT-2	Understanding
19.	Define a provisional specification.	BT-1	Remembering
20.	What is a complete specification?	BT-2	Understanding
21.	List any four parts of a complete patent specification.	BT-1	Remembering
22.	What are patent claims?	BT-2	Understanding
23.	What is the purpose of patent claims?	BT-2	Understanding
24.	What is meant by a compulsory license?	BT-2	Understanding
25.	Under what circumstances can a compulsory license be granted?	BT-1	Remembering

PART – B

Q.NO	QUESTIONS	BT LEVEL	COMPETENCE
1.	Explain the concept, objectives, and importance of patents in promoting innovation and technological development.	BT-3	Applying
2.	Discuss the history, evolution, and significance of the patent system in India.	BT-4	Analysing
3.	Describe the essential requirements for patentability, namely novelty, inventive step (non-obviousness), and industrial applicability (utility), with suitable examples.	BT-4	Analysing
4.	Explain the concept of novelty in patents and discuss how prior art affects patentability.	BT-3	Applying
5.	Discuss inventive step (non-obviousness) as a criterion for patentability and explain the methods used to determine it.	BT-4	Analysing
6.	Explain industrial applicability (utility) and its importance in granting patents.	BT-3	Applying
7.	Enumerate and explain the various categories of non-patentable	BT-4	Analysing

	inventions under the Indian Patent Act, 1970.		
8.	Discuss patentable and non-patentable inventions with suitable examples from agriculture and biotechnology.	BT-4	Analysing
9.	Explain the rights, privileges, and responsibilities of a patent owner under the Indian Patent Act.	BT-3	Applying
10.	Discuss patent infringement and the legal remedies available to patent holders.	BT-4	Analysing
11.	Explain the assignment of patent rights, types of assignments, and legal procedures involved.	BT-3	Applying
12.	Describe the role and importance of patent specifications in patent applications.	BT-4	Analysing
13.	Differentiate between provisional and complete specifications. Discuss their contents, advantages, and limitations.	BT-4	Analysing
14.	Explain the various parts of a complete patent specification, including title, field of invention, background, description, drawings, examples, and claims.	BT-3	Applying
15.	Discuss the significance of patent claims and explain different types of claims with examples.	BT-4	Analysing
16.	Explain the complete procedure for obtaining a patent in India from filing to grant, including examination, publication, opposition, and sealing.	BT-3	Applying
17.	Define compulsory licensing and discuss its objectives, conditions, procedure, advantages, and notable case studies under the Indian Patent Act.	BT-3	Applying

UNIT-III PLANT VARIETY-TRADITIONAL GEOGRAPHICAL INDICATIONS KNOWLEDGE 9

Plant variety- Justification-criteria. UPOV act- PVPFRA-National Biodiversity Authority (NBA) & Convention on Biological diversity CBD). Traditional knowledge- Concept, protection of traditional knowledge - Traditional knowledge digital library (TKDL)-Geographical Indications.

PART - A

Q.NO	QUESTIONS	BT LEVEL	COMPETENCE
1.	Define Plant Variety.	BT-1	Remembering
2.	What is meant by Plant Variety Protection (PVP)?	BT-2	Understanding
3.	State the criteria for registration of a new plant variety.	BT-1	Remembering
4.	What is meant by Novelty in plant variety protection?	BT-2	Understanding
5.	Define Distinctiveness in DUS testing.	BT-1	Remembering
6.	What is Uniformity in a plant variety?	BT-2	Understanding
7.	Explain Stability in plant variety registration.	BT-2	Understanding
8.	Expand UPOV.	BT-1	Remembering
10.	When and where was the UPOV Convention established?	BT-2	Understanding
11.	Mention any two objectives of the UPOV Act.	BT-1	Remembering
12.	Expand PPV&FRA.	BT-1	Remembering
13.	State any two objectives of the PPV&FR Act, 2001.	BT-1	Remembering
14.	What are Farmers' Rights under PPV&FRA?	BT-2	Understanding
15.	Define Breeders' Rights.	BT-1	Remembering
16.	What is the role of the PPV&FR Authority?	BT-2	Understanding
17.	Expand NBA.	BT-1	Remembering

18.	Mention two functions of the National Biodiversity Authority.	BT-1	Remembering
19.	Expand CBD.	BT-1	Remembering
20.	State the three objectives of the Convention on Biological Diversity.	BT-1	Remembering
21.	Define Traditional Knowledge (TK).	BT-1	Remembering
22.	What is meant by protection of Traditional Knowledge?	BT-2	Understanding
23.	Expand TKDL.	BT-1	Remembering
24.	What is the purpose of the Traditional Knowledge Digital Library?	BT-2	Understanding
25.	Define Geographical Indication (GI).	BT-1	Remembering

PART – B

Q.NO	QUESTIONS	BT LEVEL	COMPETENCE
1.	Explain the concept of Plant Variety Protection and justify the need for protecting plant varieties in agriculture.	BT-3	Applying
2.	Discuss the criteria for registration of plant varieties under the DUS (Distinctness, Uniformity and Stability) system with suitable examples.	BT-4	Analysing
3.	Describe the objectives, principles and major provisions of the UPOV Convention. Discuss its significance in plant breeding.	BT-4	Analysing
4.	Explain the evolution, structure and functioning of the UPOV Act and compare the 1978 and 1991 Acts.	BT-3	Applying
5.	Discuss the salient features of the Protection of Plant Varieties and Farmers' Rights Act (PPV&FRA), 2001.	BT-4	Analysing
6.	Explain the rights of breeders, farmers and researchers under the PPV&FR Act, 2001.	BT-4	Analysing
7.	Describe the procedure for registration of plant varieties under PPV&FRA and explain the role of DUS testing.	BT-4	Analysing
8.	Explain the constitution, objectives and functions of the National Biodiversity Authority (NBA) and its role in biodiversity conservation.	BT-3	Applying
9.	Discuss the Convention on Biological Diversity (CBD) and explain its objectives, principles and global significance.	BT-4	Analysing
10.	Explain Access and Benefit Sharing (ABS) under CBD and discuss the role of NBA in implementing ABS in India.	BT-3	Applying
11.	Write a detailed note on Traditional Knowledge (TK), its importance and challenges in its protection.	BT-4	Analysing
12.	Discuss various national and international approaches for the protection of Traditional Knowledge.	BT-4	Analysing
13.	Explain the origin, objectives, structure and functioning of the Traditional Knowledge Digital Library (TKDL).	BT-3	Applying
14.	Describe the role of TKDL in preventing biopiracy with suitable case studies.		
15.	Define Geographical Indications (GI) and discuss the registration procedure, benefits and legal protection provided under the GI Act.	BT-3	Applying
16.	Explain the importance of Geographical Indications in rural development and agricultural marketing with suitable Indian examples.	BT-3	Applying
17.	Compare and contrast Plant Variety Protection, Traditional Knowledge Protection and Geographical Indications with respect to objectives, ownership and legal protection mechanisms.	BT-4	Analysing

Introduction-civil remedies– injunction, damage, account of profit remedies – patent, trademark.
 Practical aspects – Introduction, benefits of licensing, licensing of basic types of IPR, clauses of IPR. IPR Policy - Effectiveness of TRIPS and patent policy

PART – A

Q.NO	QUESTIONS	BT LEVEL	COMPETENCE
1.	Define Intellectual Property Rights (IPR).	BT-1	Remembering
2.	What are civil remedies in IPR infringement cases?	BT-2	Understanding
3.	Define injunction.	BT-1	Remembering
4.	Differentiate between temporary and permanent injunction.	BT-2	Understanding
5.	What is meant by damages in IPR law?	BT-2	Understanding
6.	Define account of profits.	BT-1	Remembering
7.	What is the purpose of civil remedies in patent infringement?	BT-2	Understanding
8.	Mention any two remedies available for trademark infringement.	BT-1	Remembering
9.	What is a patent infringement suit?	BT-2	Understanding
10.	Define trademark infringement.	BT-1	Remembering
11.	What is meant by passing off in trademark law?	BT-2	Understanding
12.	Define licensing in IPR.	BT-2	Understanding
13.	State any two benefits of licensing.	BT-1	Remembering
14.	What is an exclusive license?	BT-2	Understanding
15.	Define non-exclusive license.	BT-1	Remembering
16.	What is a compulsory license?	BT-2	Understanding
17.	Mention any two types of IPR that can be licensed.	BT-1	Remembering
18.	What is meant by royalty in an IPR licensing agreement?	BT-2	Understanding
19.	Define licensor and licensee.	BT-1	Remembering
20.	What is an IPR licensing agreement?	BT-2	Understanding
21.	Mention any two important clauses in an IPR licensing agreement.	BT-1	Remembering
22.	What is meant by IPR policy?	BT-2	Understanding
23.	Expand TRIPS.	BT-1	Remembering
24.	State any two objectives of the TRIPS Agreement.	BT-1	Remembering
25.	What is patent policy?	BT-2	Understanding

PART B

Q.NO	QUESTIONS	BT LEVEL	COMPETENCE
1.	Explain the concept of civil remedies in Intellectual Property Rights and discuss their significance in protecting intellectual property.	BT-3	Applying
2.	Discuss the different types of injunctions available in IPR infringement cases with suitable examples.	BT-4	Analysing
3.	Explain the concepts of damages and account of profits as remedies for infringement of intellectual property rights.	BT-3	Applying
4.	Describe the civil remedies available in patent infringement cases and discuss the procedure for obtaining relief.	BT-3	Applying

5.	Explain the legal remedies available for trademark infringement and passing-off actions.	BT-3	Applying
6.	Discuss the role of injunction, damages and account of profits in patent and trademark litigation.	BT-4	Analysing
7.	Explain patent infringement and discuss the remedies available to a patent holder under Indian Patent Law.	BT-3	Applying
8.	Describe trademark infringement and passing off. Discuss the remedies available to trademark owners.	BT-4	Analysing
9.	Explain the concept of licensing in IPR and discuss its importance in technology transfer and commercialization.	BT-3	Applying
10.	Discuss the benefits of licensing for licensors and licensees with suitable examples.	BT-4	Analysing
11.	Explain the various types of IPR licensing agreements, including exclusive, non-exclusive and sole licensing.	BT-3	Applying
12.	Discuss the licensing of different forms of intellectual property such as patents, trademarks, copyrights and trade secrets.	BT-4	Analysing
13.	Explain the essential clauses of an IPR licensing agreement and discuss their legal significance.	BT-3	Applying
14.	Write a detailed note on Intellectual Property Rights Policy and its role in innovation, research and economic development.	BT-4	Analysing
15.	Discuss the objectives, principles and major provisions of the TRIPS Agreement.	BT-4	Analysing
16.	Critically evaluate the effectiveness of the TRIPS Agreement in promoting innovation and protecting intellectual property rights, particularly in developing countries.	BT-4	Analysing
17.	Explain India's patent policy and critically analyze the impact of TRIPS on the Indian patent system, agriculture, pharmaceuticals and technological development.	BT-3	Applying

UNIT-V INTERNATIONAL BACKGROUND OF INTELLECTUAL PROPERTY 9

International Background of Intellectual Property- Paris Convention, Berne convention, World Trade Organization (WTO), World Intellectual Property Organization (WIPO), Trade Related Aspects of Intellectual Property Rights (TRIPS) and Patent Co-operation Treaty (PCT).

PART – A

Q.NO	QUESTIONS	BT LEVEL	COMPETENCE
1.	Define Intellectual Property Rights (IPR).	BT-1	Remembering
2.	What is meant by international protection of intellectual property?	BT-2	Understanding
3.	What is the Paris Convention?	BT-2	Understanding
4.	When and where the Paris Convention held?	BT-1	Remembering
5.	State the main objective of the Paris Convention.	BT-2	Understanding
6.	What is the principle of National Treatment under the Paris Convention?	BT-2	Understanding
7.	Define the Right of Priority.	BT-2	Understanding
8.	What is the Berne Convention?	BT-2	Understanding
9.	Where was the Berne convention was held?	BT-1	Remembering

10.	Mention two objectives of the Berne Convention.	BT-1	Remembering
11.	What is meant by copyright protection under the Berne Convention?	BT-2	Understanding
12.	Expand WTO, WIPO.	BT-1	Remembering
13.	When was the World Trade Organization established and where it is located?	BT-2	Understanding
14.	Mention any two functions of the WTO.	BT-1	Remembering
15.	What is the role of India in WIPO?	BT-2	Understanding
16.	State any two objectives of the World Intellectual Property Organization.	BT-1	Remembering
17.	What is the role of WIPO in intellectual property protection?	BT-1	Remembering
18.	Expand TRIPS, PCT.	BT-1	Remembering
19.	Mention any two principles of the TRIPS Agreement.	BT-2	Understanding
20.	What is the significance of TRIPS in international trade?	BT-1	Remembering
21.	What is GATT?	BT-2	Understanding
22.	What is the objective of the Patent Cooperation Treaty?	BT-2	Understanding
23.	What is an international patent application under PCT?	BT-2	Understanding
24.	Mention two advantages of filing a patent through the PCT system.	BT-2	Understanding
25.	Differentiate between WIPO and WTO.	BT-2	Understanding

PART-B

Q.NO	QUESTIONS	BT LEVEL	COMPETENCE
1.	Explain the evolution and international background of Intellectual Property Rights and discuss the need for international cooperation in IPR protection.	BT-3	Applying
2.	Describe the origin, objectives and major provisions of the Paris Convention for the Protection of Industrial Property.	BT-4	Analysing
3.	Explain the principles of National Treatment and Right of Priority under the Paris Convention with suitable examples.	BT-4	Analysing
4.	Discuss the significance of the Paris Convention in promoting international protection of patents, trademarks and industrial designs.	BT-4	Analysing
5.	Explain the history, objectives and salient features of the Berne Convention for the Protection of Literary and Artistic Works.	BT-4	Analysing
6.	Discuss the principles and provisions of the Berne Convention and its role in international copyright protection.	BT-4	Analysing
7.	Describe the structure, objectives and functions of the World Trade Organization (WTO) and its relevance to intellectual property rights.	BT-3	Applying
8.	Explain the role of the WTO in the implementation and enforcement of intellectual property rights across member countries.	BT-3	Applying
9.	Discuss the establishment, objectives and functions of the World Intellectual Property Organization (WIPO).	BT-4	Analysing
10.	Explain the role of WIPO in promoting innovation, creativity and international cooperation in intellectual property protection.	BT-3	Applying
11.	Describe the objectives, principles and major provisions of the TRIPS Agreement.	BT-3	Applying
12.	Discuss the impact of the TRIPS Agreement on developing countries with special reference to India.	BT-3	Applying

13.	Critically evaluate the role of TRIPS in harmonizing global intellectual property protection and international trade.	BT-4	Analysing
14.	Explain the origin, objectives and functioning of the Patent Cooperation Treaty (PCT).	BT-3	Applying
15.	Discuss the procedure for filing an international patent application under the PCT system and explain its advantages.	BT-4	Analysing
16.	Compare and contrast the Paris Convention, Berne Convention, TRIPS Agreement and Patent Cooperation Treaty with respect to scope, objectives and protection offered.	BT-4	Analysing
17.	Explain the relationship among WTO, WIPO, TRIPS and PCT in the global intellectual property system and discuss their collective contribution to international IPR protection.	BT-3	Applying

