SUBJECT : INTELLECTUAL PROPERTY RIGHTS

SEM/YEAR: VI/III

UNIT I INTRODUCTION

Introduction to IPRs, Basic concepts and need for Intellectual Property – Patents, Copyrights, Geographical Indications, IPR in India and Abroad – Genesis and Development – the way from WTO to WIPO –TRIPS, Nature of Intellectual Property, Industrial Property, technological Research, Inventions and Innovations – Important examples of IPR.

P	Δ	\mathbf{R}	Γ_{-}	Δ

Q.No	Questions	BT	Competence
		Level	
1	Express the term IP.	BTL 2	Understand
2	Analyze the use of IPR.	BTL 4	Analyze
3	Define IPR and its types.	BTL 1	Remember
4	List the four types of intellectual property	BTL 1	Remember
5	Discuss are IPR issues.	BTL 2	Understand
6	Interpret why do we need to protect IPR?	BTL 2	Understand
7	Differentiate between intellectual property and copyright.	BTL 4	Analyze
8	Give the detail how do i protect my IP?	BTL 2	Understand
9	What is intellectual property ethics?	BTL 1	Remember
10	Demonstrate are the functions of WIPO.	BTL 3	Apply
11	What is the difference between commercial and industrial real estate?	BTL 6	Create
12	Explain industrial rights.	BTL 5	Evaluate
	Formulate how intellectual property rights can be used in information		
13	technology?		Create
14	State industrial design protected.		Remember
15	Show the essentials and characteristics of an industrial design.		Apply
16	Define intellectual property in technology.		Remember
17	What is intellectual property provide at least three examples?		Remember
18	Analyze the full meaning of TRIPS.	BTL 4	Analyze
19	Illustrate when did trips come into force?	BTL 3	Apply
20	Summarize the purpose of trips agreement?	BTL 5	Evaluate

	PART B		
1	Explain the types of intellectual property rights with illustrations(13)	BTL 5	Evaluate
2	Describe in detail basic concepts and need for intellectual property.(13)	BTL 1	Remember
3	Explain the types of intellectual property rights with illustrations.(13)		
	Explain the procedure to select and evaluate trademarks with a case		
4	study(13)	BTL 1	Remember
5	Explain the trading norms and functions of W.T.O. towards I.P.R.(13)	BTL 2	Understand
6	Explain the trading norms and functions of W.T.O. towards I.P.R. (13)	BTL 4	Analyze
	i) Illustrate in detail technological research .(6)		
7	ii) Explain the industrial property with example(7)	BTL 3	Apply
	Describe the genesis and development in detail with suitable	D.T. A	** 1
8	examples.(13)	BTL 2	Understand
9	i)Formulate and explain IPR in india and abroad and its limitations in	D.TT.	G .
	detail. (5)	BTL 6	Create
	ii) Outline the steps in nature of intellectual property. Give		
10	example.(8) Illustrate the way from WTO to WIPO in detail with example.(13)	BTL 3	Apply
10	inustrate the way from w 10 to w 140 in detail with example.(13)	DIL 3	Apply
11	Describe the following in detail	BTL 1	Remember
11	i). New developments in trade mark law (7)	DILI	Kemember
	ii) False advertising (6)		
	Analyze and elaborate the role of IPR. in protection against unfair		
12	competition. (13)	BTL 4	Analyze
12	Explain the significance of trade secrets in the industrial economy of	DILT	Tillaryze
13	India. (13)	BTL 4	Analyze
	Discuss the norms and standards laid down by the World Trade		1111011
14	Organization in respect of TRIPs related to 'Law of Copyright' (13)	BTL 2	Understand
	PART C		
1	When a patent application is submitted, it is examined by the patent	BTL 4	Analyze
	authorities. What kind of objections can be raised and how can they be		,
	rectified by the applicant? After the applicant has cleared all these		
	objections, all rights are given to her except one right. Which right is not		
	given and why? (15)		
2	i) Explain the nature and scope of protection of copyrights. (7)	BTL 5	Evaluate
	ii) How the work in digital media is protected under the copyright law		
1	measures? (8)		
3	i)What is the meaning and importance of Intellectual Property Rights?(7)	BTL 5	Evaluate
	ii)Explain the classification of treaties relating to intellectual property		
	rights.(8).		
4	Generalize your view about Inventions and Innovations – Important	BTL 6	Create
	examples of IPR. (15)		

	UNIT II - REGISTRATION OF IPRs		
Meaning	g and practical aspects of registration of Copy Rights, Trademarks, Patents, O	Geographi	cal Indications.
	ecrets and Industrial Design registration in India and Abroad		
	PART-A		
Q.No	Questions	BT Level	Competence
1	Show the characteristics of copyright.	BTL 3	Apply
2	Analyze an advantage to registering a copyright?.	BTL 4	Analyze
3	Examine the procedure for registration of copyright?	BTL 3	Apply
4	Define trademark	BTL 1	Remember
5	Define patents.	BTL 1	Remember
6	Discuss how long does it take to get a copyright registration?	BTL 2	Understand
7	Illustrate the patents. How long is a patent good for?	BTL 3	Apply
8	Classify what are the 3 types of patents?	BTL 4	Analyze
9	Give definition for geographical indications and Why do geographical indications need protection?	BTL 2	Understand
10	Generalize on what rights does a geographical indication provide?	BTL 6	Create
11	Tabulate the essentials and characteristics of an industrial design?	BTL 1	Remember
12	Formulate on what is a trade secret and how is it protected?	BTL 6	Create
13	Why are trade secrets important?	BTL 5	Evaluate
14	List out the India's geographical indication tagged products.	BTL 1	Remember
	Differentiate on how does copyright differ from patent and trademark		
15	law.	BTL 2	Understand
16	What are the steps in the patent application process?	BTL 1	Remember
17	Summarize trademarks.	BTL 2	Understand
18	Point out the difference between copyright and geographical indication.	BTL 4	Analyze
19	Define trade secrets.	BTL 1	Remember
20	Explain practical aspects of registration of copy rights.	BTL 5	Evaluate
	PART-B		
1	i) Discuss in detail about the practical aspects of registration of copy rights.(6)	BTL 2	Understand
2	ii) Describe the various approaches in patent searching mechanism.(7) Illustrate the following in IPR i) Copyright.(7)	BTL 3	Apply
	ii) Trademarks.(6)		
3	Describe in detail about the trade names and business name and trademark use and compliance (13)	BTL 1	Remember
4	i)Generalize on the role of openness in research, discovery and innovation.(7) ii)How do patents stifle other innovative activity?.(6)	BTL 6	Create
5	i) Examine on what is the relationship between trademark application and radical innovation?(7)ii) Identify and explain What are the consequences of breaching the	BTL 1	Remember
6	International Intellectual Copy right Law?(6) With suitable example describe the following.	BTL 2	Understand

	(i)Copyright (3) (ii) Patents (3) (iii)Trademark(3)		
	(iv) Geographical Indications (4)		
7	i)Explain in detail about How the copyrights laws differ from intellectual property rights? ii)Explain in detail about Globalization of intellectual property?.(5)	BTL 4	Analyze
8	i) Define patent and the patent application process.(8) ii) Tabulate the difference between copyright and trademark.(5)	BTL 1	Remember
9	Describe in detail about the trade secrets and industrial design registration in india and abroad(13).	BTL 1	Remember
10	i) Discuss about Copy Rights.(7)	BTL 2	Understand
	ii) Discuss about Trademarks.(6)		
11	Explain the following in detail.	BTL 5	Evaluate
	i) Trade Secrets.(7)		
	ii) trade secrets important.(6)		
12	i)Explain in detail about Trade Secrets.(7)	BTL 4	Analyze
	ii)Write notes on which law protects trade secrets?.(6)		
12	Summarize the concept of Case Contributory Trademark	D/DI 4	A 1
13	Infringement.(13)	BTL 4	Analyze
14	Analyze the following with example	BTL 3	Apply
	i) Patents.(7) ii) Geographical Indications.(6)		
	PART C		_
-	Analyze the some important steps to be considered while		
1	developing an ip strategy(15) (15)	BTL 4	Analyze
	Explain in detail about Practical IP Issues in Developing a	DIL I	1 mary 20
2	Business Plan.(15)	BTL 5	Evaluate
3	Summarize the various approaches to importance of india as a	BTL 5	Evaluate
	target country for design registration. (15)		
4	Generalize about Patents and give an outline about, Geographical Indications .(15)	BTL 6	Create

UNIT III AGREEMENTS AND LEGISLATIONS

International Treaties and Conventions on IPRs, TRIPS Agreement, PCT Agreement, Patent Act of India, Patent Amendment Act, Design Act, Trademark Act, Geographical Indication Act.

PART-A

I AKI-A			
Q.No	Questions	BT	Competence
		Level	
1	Express the term international treaties and conventions?	BTL 2	Understand
2	How to international intellectual property?	BTL 2	Understand
3	Write a Trips Agreement stand for?	BTL 1	Remember
4	Define India a member of trips	BTL 1	Remember
5	Discuss about are the functions of trips.	BTL 2	Understand
6	Give the Can you file a PCT application without fees?	BTL 2	Understand
7	What is a PCT number	BTL 1	Remember
8	Assess Do PCT applications expire.	BTL 5	Evaluate

9	State Who can file a PCT application?.	BTL 1	Remember
10	Write a Generalize note on Patent Act in India.	BTL 6	Create
11	Classify the What does Patent Act mean?	BTL 4	Analyze
12	Illustrate about Patent Amendment Act.	BTL 3	Apply
13	Assess on What are invention for the purpose of Patent Act 1970?.	BTL 5	Evaluate
14	What is the design ACT?	BTL 1	Remember
15	Show the design infringement.	BTL 3	Apply
16	Explain the term What is category of mark in trade:	BTL 4	Analyze
17	What is Form TM A?	BTL 1	Remember
18	Show the protected geographical indication?	BTL 3	Apply
19	Analyse the provisions of the TRIPS Agreement.	BTL 4	Analyze
20	Generalize about geographical indication act	BTL6	Create
	PART-B		
1	i) Discuss International Treaties and Conventions on IPRs. (6)	BTL 2	Understand
2	ii)Explain in detail about the TRIPS Agreement.(7) i) Give the PCT Agreement.(3)	BTL 1	Remember
Z	ii)Describe in detail about Patent Act of India.(10)	DILI	Remember
3	i)Describe Patent Amendment Act.(7)	BTL 1	Remember
3	ii)List the format of Patent Act of India.(6)	DILI	Kemember
4	Generalize on International Treaties and Conventions on IPRs with	BTL 6	Create
7	example. (13)	DILO	Create
5	i) Explain about the Geographical Indication Act with suitable example.(7) ii) Discuss functional PCT agreement with suitable example.(6)	BTL 1	Remember
6	i)Summarize on TRIPS agreement.(7) ii) Discuss about deign act.(6)	BTL 2	Understand
7	Explain briefly the following i) Geographical Indication Act (7) ii) TRIPS Agreement.(6)	BTL 4	Analyze
8	i) Summarize the Design Act.(7) ii) Assess on Patent Act of India.(6)	BTL 5	Evaluate
9	Demonstrate briefly about International Treaties and Conventions on IPRs.(13)	BTL 3	Apply
10	Explain the following in detail i) Criteria patent.(7) ii) Indian IPR Scenario.(6)	BTL 4	Analyze
11	Discuss various IP rights and marketing regulations with example.(13)	BTL 2	Understand
12	Analyze the IP management framework. Explain in detail.(13)	BTL 4	Analyze
13	Describe in detail about difference between Trademark Act and Geographical Indication Act. (13)	BTL 1	Remember
14	Write an example for TRIPS Agreement.(13)	BTL 3	Apply
	PART C		

1	Explain the following in detail india's patent policy, india's patent policy in pre-trips period. Analyze the main features of the original indian patents act, 1970 and provisions oF TRIPs		
		BTL 4	Analyze
2	Write an patent amendments in india after TRIPS agreement and the salient features of the patents act, 1970.(15)	BTL 5	Evaluate

3	(i)Explain in detail notes rights arising from trademark registration (8) (ii)Discuss in detail notes on removal of the trademark from the register (7)	BTL 5	Evaluate
4	 (i) Write a detail notes on protecting geographical indications – a step in developing a geographical indication (10) (ii) Generalize on protecting geographical indications abroad(5) 	BTL 6	Create

UNIT IV DIGITAL PRODUCTS AND LAW

Digital Innovations and Developments as Knowledge Assets – IP Laws, Cyber Law and Digital Content Protection – Unfair Competition – Meaning and Relationship between Unfair Competition and IP Laws – Case Studies.

	PART-A		
Q.No	Questions	BT	Competence
		Level	
1	How to use IP Laws?	BTL 2	Understand
2	Illustrate the invention in IPR.	BTL 3	Apply
3	What is the cyber law?	BTL 1	Remember
4	Analyze digital content protection.	BTL 4	Analyze
5	Define cyber law.	BTL 1	Remember
6	Discuss the meaning of IP in law.	BTL 1	Remember
7	How many cyber laws are there in India?	BTL 2	Understand

		Ī	
8	Define Cyber Law Act 2000.	BTL 1	Remember
9	Differentiate IP law and cyber law.	BTL 2	Understand
10	Show the law of cybercrime.	BTL 3	Apply
11	Compare the cyber law and digital content protection.	BTL 5	Evaluate
12	What the types of cyber law?	BTL 1	Remember
13		BTL 6	Create
	Write the advantages of cyber laws.		
1.4		DOT 5	
14	Discriminate Developments as Knowledge Assets.	BTL 5	Evaluate
15	Definitions of "Unfair Competition".	BTL 1	Remember
			·
16	Express the Character of the Unfair Competition Law of Japan.	BTL 2	Understand
17	Formulate the unfair competition prevention act.	BTL 6	Create
18	Categorize the features of digital innovations.	BTL 4	Analyze
19	Compare Unfair Competition and IP laws	BTL 4	Analyze
20	Demonstrate the use of Unfair Competition.	BTL 3	Apply
	PART-B	2120	1 1991)
1	i)What is IP laws? Write a detail notes Digital Innovations ?(7)	BTL 1	Remember
	ii) How to use unfair competition prevention act ?(6)		
2	i)Give the Developments as Knowledge Assets.(7)	BTL 2	Understand
	ii)Explain cyber laws in detail.(6)		
3	Discuss on digital content protection and Cyber Law.	BTL 2	Understand
	Describe in detail about Relationship between Unfair Competition and IP		
4	Laws with suitable examples.(13)	BTL 1	Remember
5	Illustrate in detail about IP laws.(13)	BTL 3	Apply
	i) Formulate the structure of IP licensing and Indian competition		11 3
6	law (6)	BTL 6	Create
	ii)Describe in detail about competition law with example.(7)		
7	i) Analyze the cybercrimes? Give examples.(7)	BTL 4	Analyze
	ii) Explain in detail about on-line crime. (6)		
8	i)Explain in detail about the Digital Content Protection (7)	BTL 5	Evaluate
	ii)Explain cyber laws in detail.(6)	DTI 4	A 1
9	Analyze the significance of International Trade Mark Law? (13) Describe in detail about confidentiality agreement and how it can protect	BTL 4	Analyze
10	the Trade secrets?(13)	BTL 1	Remember
11	i) Explain the evolution of IP regime in India.(7)	BTL 4	Analyze
7.,	ii) What is copyright infringement? What are the remedies for it?	БІДТ	1 111111 1 20
	(6)		
	i) Describe the detail notes of "Unfair Competition" and General		
12	Clause.(6)	BTL 1	Remember
	ii) Discuss the Developments as Knowledge Assets.(7)		

13	i)List the Cyber Law Act 2000. (3)	BTL 3	Apply
	ii) Illustrate in detail about digital content protection.(10)		
14	i) Discuss the Semi Conductor Chip Protection Act. (6)	BTL 2	Understand
	ii) Discuss the Principles of Copyright Act.(7)		
	PART C		
1		BTL 4	Analyze
	(i)Write about the purpose of publications, pre grant and post grant		
	oppositions of a		
	patent application.(8)		
	(ii) What are the remedies for the misuse of monopoly under the exclusive		
	rights of a		
	patentee?(7)		>
	(i)Define IT Act 2000 and explain its significance.(8)		
2	(ii)Briefly describe the unfair competition in India.(7)	BTL 5	Evaluate
3	What are the salient features of Information Technology Act?(8)		
	Explain the compulsory licensing scheme under Patent Act. (7)		
4		BTL 6	Create
	What are the various cybercrimes? Explain in detail with suitable		
	example.		
	(15)		
	LINIT V ENEOD CEMENT OF IDDa	<u> </u>	

UNIT V ENFORCEMENT OF IPRs Infringement of IPRs, Enforcement Measures, Emerging issues – Case Studies. PART-A

Q.No	Questions	BT	Competence
		Level	
1.	Give the elements of infringement	BTL-2	Understanding
2.	Mention the various myths of copyright infringement.	BTL-2	Understanding
3.	Illustrate the components of contributory infringement	BTL-1	Remembering
4.	What is vicarious infringement.	BTL-1	Remembering
5.	Show the Nature of the Copyrighted Work	BTL-4	Analyzing
6.	Define Fair Use Cases.	BTL-1	Remembering
7.	What are the uses of Parody	BTL-2	Understanding
8.	Compare the Defenses to Infringement	BTL-4	Analyzing
9.	What are the infringement actions	BTL-1	Remembering
10.	State the importance of Remedies for Infringement	BTL-6	Creating

11.	Why Piracy of Software is most important?	BTL-2	Understanding
12.	List the Issues Confronting Cyberspace Users	BTL-1	Remembering
13.	How Digital Rights Managements used ?	BTL-6	Creating
14.	Mention any two features of digital millennium copyright ACT	BTL-3	Applying
15.	List the Issues Arising under the DMCA	BTL-3	Applying
16.	Explain the Enforcement Measures.	BTL-4	Analyzing
17.	Mention the importance of recent developments in copyright law.	BTL-5	Evaluating
18.	What is the difference between terms of the trade	BTL-1	Remembering
19.	List the Limitations on the Rights of Mask Work Owners.	BTL-3	Applying
20.	Summarize the Duration of Protection and Exclusive Rights.	BTL-5	Evaluating
	PART-B		
1	Explain the Copyright Ownership (13).	BTL-5	Evaluating
2	Discuss the Duration of Copyright in Works of Joint Ownershipe (13)	BTL-2	Understanding
	Illustrate some transfers of copyright in detail. (13)		
3	indistrate some transfers of copyright in detail. (13)	BTL-3	Applying
4	Describe about the grants executed prior and after january 1, 1978 (13)	BTL-2	Understanding
	What are the duration of copyright (3)		8
5	Explain each of Duration under the 1909 Copyright Act.(10)		
6	Explain in detail the Effect of 1976 Copyright Act on Preexisting Works. (13)	BTL-1	Remembering
7	Demonstrate the functions of elements of infringement ownership of copyright.(13)	BTL-3	Applying
8	Generalize the importance of contributory infringement and vicarious infringement .(13)	BTL-6	Creating
9	Explain in detail about defenses to infringement .(13)	BTL-4	Analyzing
10	Discuss the infringement actions and remedies for infringement13)	BTL-1	Remembering
11	Summarize Enforcement Measures in IPR with suitable example.(13)	BTL-2	Understanding
12	Analyze: i) Notice of Copyright (5) ii) Infringement of Computer Programs (4) iii) Licensing of Computer Programs (4)	BTL-4	Analyzing
13	Compare and contrast the Emerging issues of IPR. (13)	BTL-4	Analyzing
	Explain in detail about copyright protection for automated databases . (13)	BTL-1	Remembering
14			

1	What are the various parties' rights in the movie and the song? Discuss ownership rights and the duration of the copyrights for these works. (15)	BTL-6	Creating
2	Holiday hired an independent contractor to create a movie explaining its ships' safety features. The parties had no written agreement. Holiday also instructed its musical director (who has been employed with Holiday for four years) to compose an instrumental musical piece that could be played at the end of its musical shows (15)	BTL-5	Evaluating
3	Discuss the copyrightability of the works discussed in the case study aswell as any other copyright or infringement issues relating to the works. (15)	BTL-4	Analyzing
4	Holiday has compiled a database of all of its customers, consisting of their names (listed alphabetically), addresses, cruises attended, and how much money they spent on each cruise on excursions, liquor, and so forth. Holiday intends to use this to market additional cruises to these ustomers. Holiday also uses a software package that it licensed from ABC Inc., which allows it to prepare bills for its customers at the end of each cruise on its ship Explorer. Holiday would like to make several copies of this software so it can use it for each of its ships. (15)		Creating

5	Compare parallelizing the reduce solver using Open MP and MPI.(13)	BTL 4	Analyze
6	Demonstrate the following in detail	BTL 3	Apply
	i) Recursive depth-first search.(7)	DILS	пррпу
	ii)Non recursive depth-first search.(6)		
7	i)Discuss about static parallelization of tree search.(7)	BTL 1	Remember
	ii) Describe in detail about static parallelization of tree	2121	remember
	search using pthreads.(6)		
8	Illustrate the dynamic parallelization of tree search using pthreads .(13)	BTL 3	Apply
9	Evaluate Parallelizing the tree-search programs using OpenMP.(13)	BTL 5	Evaluate
10	Formulate the Implementation of tree search using MPI and dynamic	BTL 6	Create
10	partitioning.(13)	2120	Credite
11	Analyze the following in detail	BTL 4	Analyze
	i)Implementation of tree search using MPI.(7)	DIE	1 Hiai y 20
	ii)Implementation of tree search using static Partitioning.(6)		
12	i)Analyze the Performance of the MPI solvers.(7)	BTL 4	Analyze
12	ii)Discuss the Performance of MPI and Pthreads Implementations of	DIL I	1 mary 20
	Tree Search.(6)		
13	Describe in detail about performance of the OpenMP implementations	BTL 1	Remember
	in Tree Search.(13)	2121	
14	i)Discuss in detail about Travelling salesman problem. (5)	BTL 2	Understand
	ii) Explain about tree search with pseudo-code for a recursive solution to	2122	011001300110
	TSP using depth-first search.(8)		
	PART C		
1	In each iteration of the serial n-body solver, we first compute the total	BTL 4	Analyze
	force on each particle, and then we compute the position and velocity of		3
	each particle. Would it be possible to reorganize the calculations so that		
	in each iteration we did all of the calculations for each particle before		
	proceeding to the next particle? That is, could we use the following		
	pseudocode?		
	for each timestep		
	for each particle {		
	Compute total force on particle;		
	Find position and velocity of particle;		
	Print position and velocity of particle;		
	If so, what other modifications would we need to make to the solver? If		
	not, why not?explain. (15)		
2	Run the basic serial n-body solver for 1000 timesteps with a stepsize of		
	0.05, no output, and internally generated initial conditions. Let the		.
	number of particles range from 500 to 2000. Explain how does the run-	DTI 5	Evaluate
	time change as the number of martiales increases? Con view automatic	BTL 5	
	time change as the number of particles increases? Can you extrapolate		
	and predict how many particles the solver could handle if it ran for 24		
2	hours? (15) Write on MPI program that compares the performance of MPI Allother		Eval
3	Write an MPI program that compares the performance of MPI Allgather	DTI E	Evaluate
	using MPI IN PLACE with the performance of MPI Allgather when	BTL 5	
	each process uses separate send and receive buffers. Assess which call		

	to MPI Allgather is faster when run with a single process? What if you use multiple processes? (15)		
4	Modify the Pthreads implementation of static tree search so that it uses	BTL 6	Create
	a readwrite lock to protect the examination of the best tour. Read-lock		
	the best tour when calling Best tour, and write-lock it when calling		
	Update best tour. Run the modified program with several input sets and		
	formulate how does the change affect the overall run-time? (15)		