

U.S.N.

# B.M.S. College of Engineering, Bengaluru-560019

Autonomous Institute Affiliated to VTU

## January / February 2025 Semester End Main Examinations

Programme: B.E.

Semester: VII

Branch: Computer Science and Engineering

Duration: 3 hrs.

Course Code: 22CS7HSCFI

Max Marks: 100

Course: Cyber Law, Forensics and IPR

**Instructions:** 1. Answer any FIVE full questions, choosing one full question from each unit.  
2. Missing data, if any, may be suitably assumed.

Important Note: Completing your answers, compulsorily draw diagonal cross lines on the remaining blank pages. Revealing of identification, appeal to evaluator will be treated as malpractice.			<b>UNIT - I</b>	<b>CO</b>	<b>PO</b>	<b>Marks</b>
	1	a)	Define Cyberlaw and Describe the Objectives of IT Act 2000.	CO1	PO1	6
		b)	Analyze the six different elements that the Central Government has to take into consideration while specifying security procedure.	CO2	PO2	6
		c)	A corporate entity is manufacturing mobile products which seeks to do any business in an electronic environment. Identify the precautionary measures to be adopted to prevent legal consequences.	CO1	PO1	8
			<b>OR</b>			
	2	a)	Describe each of the terms mentioned below with respect to IT Act 2000. (i) Licence (ii) Cyber Appellate Tribunal (iii) Adjudicating officer	CO2	PO2	6
		b)	A person wants to retain his documents and records in electronic form. Identify the section that addresses this issue. Analyze the conditions that must be satisfied before any documents and records are retained in electronic form.	CO2	PO2	6
		c)	The growth of internet in India has led to the prevalence of the practice of cyber theft in our country. Justify with the scenario that reflects how a Cyber theft can be covered under the ambit of existing laws.	CO2	PO2	8
			<b>UNIT - II</b>			
	3	a)	In 2022, Bangalore police arrested a victim who had kidnapped and murdered a woman.  When digital forensic investigators examined the killer's computer, they recovered a document which he had used in planning his crimes. This was used as evidence that his actions	CO2	PO2	10

		<p>were premeditated and was one of the reasons why he was given the death penalty.</p> <p>List and explain in detail the services that Computer forensic professionals perform to recover complex evidences.</p>			
	b)	Analyze and explain the different types of Business Forensic Technology.	CO2	PO2	10
		<b>OR</b>			
4	a)	A Computer Forensics Specialist is the person responsible for doing computer forensics. Analyze and discuss the several steps to identify and attempt to retrieve possible evidence that may exist on a subject computer system. Also discuss who can use Computer Forensics Evidence.	CO2	PO2	10
	b)	Explain the types of Law Enforcement Computer Forensic Technology.	CO1	PO1	10
		<b>UNIT - III</b>			
5	a)	Differentiate between backup server using shared library and server-less backup solution with relevant diagrams.	CO2	PO2	10
	b)	Dr. Murray was the personal physician of pop singer Michael Jackson. Jackson died of an overdose of a general anesthetic called propofol. Dr. Murray was charged with involuntary manslaughter for Jackson's death. His conviction was partially due to evidence that was found on his computer that showed he had been prescribing more and more of a propofol to Jackson. Identify the type of evidence this comes to and also Analyze the five rules that need to be followed during the course of collecting electronic evidence.	CO2	PO2	10
		<b>OR</b>			
6	a)	Today most of the companies have the challenge of managing too much of data to complete the backup with the existing ever-shrinking backup windows. Analyze the different techniques that the software community could adapt to overcome the problem of the backup windows time and explain in detail.	CO2	PO2	10
	b)	Discuss the role of backup in data recovery.	CO1	PO1	10
		<b>UNIT - IV</b>			
7	a)	Explain in detail the procedure for Obtaining a Patent.	CO1	PO1	10
	b)	Differentiate between Provisional specification and Complete Specification.	CO2	PO2	10
		<b>OR</b>			
8	a)	Erik Wallenberg from U.S. had just started his job as a laboratory assistant at Tetra Pak when one day he became responsible for the whole laboratory operation. His boss, Ruben Rausing, gave him a task, to create a new milk carton, the milk carton was to be made	CO2	PO2	10

			out of paper, like its predecessors in the USA. Erik Wallenberg went home and started to think. In the end, he succeeded in coming up with a solution - a model where the carton was to be manufactured out of one single piece, a triangular tetrahedron. Now he wants to take patent on this. Analyze the basic criteria of patentability that should be satisfied, for his work to be patentable and explain in detail.			
		b)	Can the inventor of a new process for by-pass surgery claim a patent for new surgical method invented by him, justify your answer by specifying the sections of the Indian Patents Act.	CO2	PO2	10
			<b>UNIT - V</b>			
	9	a)	A neurologist applies a patent for the cure of Parkinson's disease in new method and is granted, but a doctor from a private hospital uses this method claiming it to be his invention. Analyze as to how the neurologist can go ahead with the issue and describe in detail who has the right to institute a suit for infringement of patents.	CO2	PO2	10
		b)	An author who published a book in the year 2000 expires in 2030. Till what time will the copyright on his work last. Identify the section that handles this issue and explain the different Sections with respect to the term of the copyright.	CO1	PO1	10
			<b>OR</b>			
	10	a)	Differentiate between Contract of Service and Contract for service.	CO2	PO2	10
		b)	Highlight on the acts which do not constitute infringement and explain in detail.	CO1	PO1	10

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