

Roll No.

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Total No. of Pages: 01

Total No. of Questions: 07

B.Sc. (CS), Semester-4th
WEB TECHNOLOGIES
Subject Code: UGCA1927
M.Code: 93442

Date of Examination: 08-12-2025

Time: 3 Hrs.

Max. Marks: 60

INSTRUCTIONS TO CANDIDATES:

1. SECTION-A is COMPULSORY consisting of TEN questions carrying TWO marks each.
2. SECTION B contains SIX questions carrying TEN marks each and students have to attempt any FOUR questions.

| Q. No. | Question | Course Outcome | Bloom's Level |
|------------------|---|----------------|---------------|
| SECTION-A | | | |
| 1. | Answer Briefly | | |
| a. | Define Internet domains. | CO1 | L1 |
| b. | How do we establish connectivity on the internet client IP address? | CO1 | L1 |
| c. | Compare Unordered and Ordered list. | CO2 | L2 |
| d. | Name any 2 string functions with syntax in JavaScript. | CO4 | L1 |
| e. | What is <a> tag in HTML? | CO3 | L1 |
| f. | Demonstrate <FRAMESET> tag with syntax in HTML. | CO2 | L2 |
| g. | List Date functions in JavaScript. | CO4 | L1 |
| h. | Show the use of the <tr> and <td> tag in HTML tables. | CO3 | L2 |
| i. | Illustrate the Button elements. | CO5 | L2 |
| j. | Explain Multi Choice Select lists element of forms in HTML. | CO5 | L2 |
| SECTION-B | | | |
| 2. | Compare Paired and Unpaired HTML tags with the help of examples. | CO1 | L5 |
| 3. | Analyze how different types of hyperlinks that can be used together to design a fully connected multipage website. | CO3 | L4 |
| 4. | Develop an HTML code snippet that creates a table with merged cells using 'COLSPAN' and 'ROWSPAN'. Explain the purpose of each attribute. | CO3 | L4 |
| 5. | Build a program of targeting Named Frames in HTML and also give output with explanation. | CO2 | L3 |
| 6. | Demonstrate the use of <select> and <option> elements for user input selection. | CO5 | L5 |
| 7. | Make use of JS Functions with its definition, parameters, call and apply in JavaScript. | CO4 | L3 |

NOTE: Disclosure of Identity by writing Mobile No. or Making of passing request on any page of Answer Sheet will lead to UMC against the student.

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Total No. of Pages: 01

Total No. of Questions: 07

B.Sc.-CS, Semester-4th
CYBER LAWS AND IPR
Subject Code: UGCA1949
M. Code: 93439

Date of Examination: 05-12-2025

Time: 3 Hrs.

Max. Marks: 60

INSTRUCTIONS TO CANDIDATES:

1. SECTION-A is COMPULSORY consisting of TEN questions carrying TWO marks each.
2. SECTION-B consists of SIX questions, each carrying TEN marks each and student has to attempt any FOUR questions.

| Q. No. | Question | Course Outcome | Bloom's Level |
|------------------|--|----------------|---------------|
| SECTION-A | | | |
| 1. | Answer briefly: | | |
| a. | Define the term "OSS". | CO3 | L1 |
| b. | Explain cyber stalking. | CO2 | L2 |
| c. | What do you mean by identity theft? | CO2 | L1 |
| d. | Explain the term "IPR". | CO3 | L2 |
| e. | Define the concept of threat to privacy. | CO2 | L1 |
| f. | Classify "Cyber Defamation". | CO2 | L2 |
| g. | What do you mean by copyright? | CO4 | L1 |
| h. | Explain minimum contacts theory. | CO1 | L2 |
| i. | Recall related rights and copyright. | CO4 | L1 |
| j. | Classify different types of jurisdiction. | CO1 | L2 |
| SECTION-B | | | |
| 2. | Make use of self-regulation approach to privacy. | CO2 | L3 |
| 3. | Identify the term "Patent", granting of patent and kind of inventions protected by patent. | CO3 | L3 |
| 4. | Analyze copyright and also discuss how long does copyright last? | CO4 | L4 |
| 5. | Explain the term "Cyber Laws" also explain the need for cyber laws in digital world. | CO1 | L5 |
| 6. | Analyze different intellectual property rights and also classify trademark and its registration process. | CO4 | L4 |
| 7. | Evaluate the following terms: (i) Web Technology (ii) Jurisprudence at Indian and International Level. | CO1 | L5 |

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| 6. | Classify the popular Message Digest and Hash Algorithms such as SHA-1, SHA-2, MD4, and MD5, and explain their structures, working principles, strengths, weaknesses, and their applications in modern cryptographic systems. | CO2 | L4 |
| 7. | Examine the reliability of digital signatures in comparison to traditional authentication methods, and recommend scenarios where digital signatures provide a superior security advantage. | CO3 | L4 |

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Total No. of Pages: 1

Total No. of Questions: 07

B.Sc. (Cyber Security), Semester-4th

DIGITAL FORENSICS

Subject Code: UGCA 2002

M.Code: 93438

Date of Examination: 02-12-2025

Time: 3 Hrs.

Max. Mark: 60

INSTRUCTIONS TO CANDIDATES:

1. SECTION-A is COMPULSORY consisting of TEN questions carrying TWO marks each.
2. SECTION-B consists of SIX questions, each carrying TEN marks each and student has to attempt any FOUR questions.

| Q. No. | Question | Course Outcome | Bloom's Level |
|------------------|--|----------------|---------------|
| SECTION-A | | | |
| 1. | Answer briefly: | | |
| a. | Explain role of Digital forensics. | CO1 | L2 |
| b. | Define parts of gathering evidence. | CO2 | L1 |
| c. | Write the holistic approach to cyber forensics. | CO1 | L1 |
| d. | What is "Evidence Management & Presentation"? | CO3 | L1 |
| e. | Summarize search and seizure electronic evidence. | CO2 | L2 |
| f. | Demonstrate how law enforcement should manage and collect digital evidence at a crime scene. | CO3 | L2 |
| g. | Compare retrieved and un-retrieved communications. | CO2 | L2 |
| h. | Recall the importance of forensic mind-set. | CO3 | L1 |
| i. | Classify Legal Aspects of Digital Forensics (IT Act 2000). | CO4 | L2 |
| j. | List any two "mobile forensics tools". | CO4 | L1 |
| SECTION-B | | | |
| 2. | Explain the different tools and techniques used in digital forensics with suitable examples. | CO1 | L5 |
| 3. | Choose the best method for collecting physical evidence at a crime scene and explain the reason for the same. | CO2 | L3 |
| 4. | Organize the report on importance of understanding the court documents that required for a criminal investigation. | CO3 | L3 |
| 5. | Classify computer forensics workstations and its software. | CO3 | L4 |
| 6. | Explain Mobile Forensics with its techniques. | CO4 | L5 |
| 7. | Distinguish between court orders and search warrants in cybercrime investigations. | CO2 | L4 |

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