

DO NOT OPEN THIS TEST BOOKLET UNTIL YOU ARE TOLD TO DO SO

Booklet Serial No. **834029**

Test Booklet Series

**COMPUTER INSTRUCTOR-OPERATOR
OMR Examination - 2025**

A

Time Allowed: 120 Minutes

Maximum Marks: 120

INSTRUCTIONS

1. IMMEDIATELY AFTER THE COMMENCEMENT OF THE EXAMINATION, YOU SHOULD CHECK THAT THIS TEST BOOKLET **DOES NOT** HAVE ANY UNPRINTED OR TORN OR MISSING PAGES OR ITEMS, ETC. IF SO, GET IT REPLACED BY A COMPLETE TEST BOOKLET.
2. Please note that it is the candidate's responsibility to encode and fill in the Roll Number, Booklet Serial No. and Test Booklet Series Code A, B, C or D carefully and without any omission or discrepancy at the appropriate places in the OMR Answer /Response Sheet. Any omission/discrepancy will render the Response Sheet liable for rejection.
3. You have to enter your Roll Number on the Test Booklet in the Box provided alongside.
DO NOT write *anything else* on the Test Booklet.
4. This Test booklet contains **120** items (questions). Each item comprises of four responses (answers). You will select the response which you want to mark on the Answer Sheet/Response Sheet. In case you feel that there is more than one correct response, mark the response which you consider the appropriate. In any case, choose **ONLY ONE** response for each item.
5. You have to mark all your responses **ONLY** on the separate Answer /Response Sheet provided. See directions in the Response Sheet.
6. All items carry equal marks.
7. After you have completed filling in all your responses on the Response Sheet and the examination has concluded, you should hand over to the Invigilator **only the Answer /Response Sheet**. You are permitted to take away with you the Test Booklet and **Candidate's Copy of the Response Sheet**.
8. Sheets for rough work are appended in the Test Booklet at the end.
9. While writing Centre Code and Roll No. on the top of the Answer Sheet/Response Sheet in appropriate boxes use "**ONLY BLUE/BLACK BALL POINT PEN**".
10. **Penalty for wrong answers:**

THERE WILL BE PENALTY FOR WRONG ANSWERS MARKED BY THE CANDIDATE IN THE WRITTEN TEST (OBJECTIVE TYPE QUESTIONS PAPERS).

- (i) There are four alternatives for the answer to every question. For each question for which a wrong answer has been given by the candidate, $(\frac{1}{4})$ of the marks assigned to that question will be deducted as penalty.
- (ii) If a candidate gives more than one answer, it will be treated as a **wrong answer** even if one of the given answers happens to be correct and there will be same penalty as above for that question.
- (iii) If a question is left blank, i.e., no answer is given by the candidate, there will be **no penalty** for that question.

DO NOT OPEN THIS TEST BOOKLET UNTIL YOU ARE TOLD TO DO SO

(Set - A)

(Set - A)

(2)

1. The decimal representation for the character ‘\$’ in ASCII is

 - A) 32
 - B) 30
 - C) 34
 - D) 36

2. What is the Decimal representation of the Binary number: 11010101.01

 - A) 200.25
 - B) 198.25
 - C) 213.25
 - D) 209.25

3. Which of the following statements about UTF-8 and Unicode is correct?

 - A) UTF-8 is a fixed-length encoding scheme where every character is represented using 8 bits
 - B) UTF-8 is a variable-length encoding scheme designed to be compatible with ASCII
 - C) Unicode provides unique number for characters only in Latin alphabets
 - D) ASCII encoding maps each character to 8 bytes, with the leading bit always set to 1

4. What is the Binary equivalent representation of the Decimal number: 278

 - A) 100010110
 - B) 101101110
 - C) 100110011
 - D) 111001100

5. Consider the following statements:

 - I. A mainframe computer uses its power to execute a reliable volume of computations concurrently
 - II. A supercomputer uses its power to execute a few programs as fast as possible

Which of the following statements is/are correct?

 - A) I only
 - B) II only
 - C) Both I and II
 - D) Neither I nor II

6. Which keyboard shortcut in Microsoft Word is used to remove the document window split?

 - A) Ctrl + Shift + S
 - B) Alt + Shift + C
 - C) Ctrl + Alt + C
 - D) Shift + F6

7. What is the process in Microsoft Word that combines names and addresses with a standard document called?

 - A) Mail Merge
 - B) Document Linking
 - C) Data Consolidation
 - D) Template Binding

8. Which of the following steps is/are correct for opening an existing document and selecting text in Microsoft Word?
- A) File → New → Select text with Ctrl + A
 - B) File → Open Document → Select text by dragging the cursor
 - C) Insert → Open Document → Highlight text using Shift + Arrow Keys
 - D) Home → New → Select text with a Double-click
9. What is the purpose of Compatibility Checker in Microsoft Word?
- A) To identify and fix grammatical errors in the document
 - B) To ensure the document is optimised for mobile viewing
 - C) To identify features in the document that might not be supported in earlier versions of Word
 - D) To convert the document into a different file format
10. How can you customise the AutoCorrect option in Microsoft Word?
- A) By clicking on File > Options > Proofing > AutoCorrect Options
 - B) By selecting Review > Language > AutoCorrect from the ribbon
 - C) By right-clicking a word and selecting AutoCorrect Options
 - D) By clicking on Insert > AutoCorrect and choosing Customize
11. Which feature in Microsoft Excel allows you to gather data from different worksheets into a master worksheet?
- A) Power Query
 - B) Consolidate
 - C) Data Validation
 - D) 3D References
12. Match Column - X (Shortcut) with Column - Y (Function) concerning operations in Microsoft Excel and select the answer using the codes given below:
- | Column - X (Shortcut) | Column - Y (Function) |
|------------------------------|---|
| 1. Ctrl + Shift + \$ | I. Open the “Go To” dialog box |
| 2. Ctrl + Arrow Key | II. Apply currency format to selected cells |
| 3. Ctrl + G | III. Navigate to the last used cell in the current column |
- Choose the Correct Option:**
- A) 1-III, 2-I, 3-II
 - B) 1-I, 2-II, 3-III
 - C) 1-II, 2-III, 3-I
 - D) 1-I, 2-III, 3-II
13. Which of the following functions can be used to return the current date and time in Microsoft Excel?
- A) TODAY()
 - B) NOW()
 - C) DATE()
 - D) TIME()

- 14.** What is the value of the Microsoft Excel function “Floor(16,6)”?
- A) 16
 - B) 96
 - C) 6
 - D) 12
- 15.** What is the primary feature of a datasheet in a database?
- A) It displays data in a graphical format like charts
 - B) It allows users to view data in rows and columns similar to a spreadsheet
 - C) It only supports the creation of new tables but not data editing
 - D) It organizes data in a hierarchical tree structure
- 16.** Match Column - X with Column - Y concerning Microsoft Excel and select the answer using the codes given below:
- | Column - X (Keys) | Column - Y (Function) |
|--------------------------|--|
| 1. Home | I. Moves the active cell down by one screen |
| 2. Ctrl+Home | II. Moves the active cell to the first column of the current row |
| 3. Page Down | III. Moves the active cell to the beginning of the worksheet |
- Choose the Correct Option:**
- A) 1-III, 2-I, 3-II
 - B) 1-I, 2-II, 3-III
 - C) 1-II, 2-III, 3-I
 - D) 1-I, 2-III, 3-II
- 17.** Which of the following statements about MS Excel is correct?
- A) MS Excel only supports the .xls file format for saving data
 - B) Pivot tables in MS Excel are used to create only charts
 - C) MS Excel allows users to automate tasks using built-in functions and macros
 - D) Conditional formatting in MS Excel is used only for changing font styles
- 18.** A Doughnut Chart in Excel is similar to a
- A) Bar Chart
 - B) Pie Chart
 - C) Line Chart
 - D) Scatter Plot
- 19.** What is the primary purpose of sparkline in a worksheet?
- A) To create detailed, full-sized charts for presentations
 - B) To display a tiny chart within a cell for visual representation of data
 - C) To highlight errors in the data set automatically
 - D) To replace numerical data with visual graphs entirely

20. Which formula is used in MS Excel to calculate the sum of numeric values in column D, specifically from rows 11 to 16?
- A) =SUM (D11, D16)
 - B) =COUNT (D11, D16)
 - C) =SUM (D11:D16)
 - D) Both (A) and (C) are correct
21. Which of the following statements is true about SQL database structures?
- A) A view is a virtual table based on the result set of an SQL query
 - B) An index is used to decrease the security of a database
 - C) System base tables are used to store user data permanently
 - D) A base table cannot have any indexes associated with it
22. Which of the following is true about foreign keys in relational databases?
- A) A foreign key creates a relationship between two tables
 - B) A foreign key cannot reference data in another table
 - C) A foreign key is only used for indexing
 - D) A foreign key is used to store large data values
23. What does the abbreviation SQL stand for?
- A) Sequential Query Language
 - B) Structured Query Language
 - C) Simple Query Language
 - D) System Query Language
24. Consider the relation scheme $R = (E, F, G, H, I, J, K, L, M, N)$ and the set of functional dependencies: $\{(E, F) \rightarrow (G), (F) \rightarrow (I, J), (E, H) \rightarrow (K, L), (K) \rightarrow (M), (L) \rightarrow (N)\}$
Which of the following sets of attributes is the key for R?
- A) {E, K}
 - B) {E, F, H}
 - C) {E, F, H, K, L}
 - D) {F}
25. What is the default file extension used for saving Paint Brush files in Windows?
- A) .doc
 - B) .bmp
 - C) .png
 - D) .jpg
26. Match the following Information Technology Act Sections with their applicability:
- | Column - X (Section of IT Act) | Column - Y (Description) |
|---------------------------------------|---|
| 1. Section 66B | I. Identify theft through fraudulent use of another person's identity |
| 2. Section 66C | II. Violation of privacy by sharing private images without consent |
| 3. Section 66E | III. Punishment for receiving stolen computer resources or devices. |
- Choose the Correct Option:**
- A) 1-III, 2-I, 3-II
 - B) 1-I, 2-II, 3-III
 - C) 1-II, 2-III, 3-I
 - D) 1-I, 2-III, 3-II

27. Which section of the Reserve Bank of India has been amended after the commencement of the Information Technology Act, 2000 to include electronic fund transfer services like RTGS, NEFT, etc.?
- A) Section 57 (3)
 - B) Section 58 (2)
 - C) Section 59 (1)
 - D) Section 60 (2)
28. The primary reason that Intellectual Capital is considered critical for the success of an organization is:
- I. It increases the financial capital of the organization
 - II. It provides a competitive advantage to the organization
 - III. It reduces the operating cost of the organization

Choose the correct answer from the options given below.

- A) I and II
 - B) III only
 - C) II only
 - D) I, II, and III
29. Intellectual Property Rights (IPR) in India covers
- I. Patents
 - II. Copyrights
 - III. Trademarks
- Which of the following options is/are correct?**
- A) I and II
 - B) I only
 - C) II only
 - D) I, II, and III
30. Which of the following statements about the application of Information Technology in the railway system is/are correct?
- I. The online reservation system allows users to make reservations only from select stations
 - II. The route-based reservation system facilitates the issuance of journey-cum-reservation tickets from any station to any station
 - III. It helps in providing round-the-clock service for handling passenger reservations
 - IV. The system does not provide automatic database recovery against hardware or software failures

Which of the above statement is/are correct?

- A) I and II
- B) II and III
- C) III and IV
- D) I, II, and III

- 31.** What does the full form of IMEI stand for in mobile communications?
- A) International Mobile Equipment Identifier
 - B) International Mobile Equipment Information
 - C) International Mobile Electronic Identifier
 - D) Internet Mobile Equipment Identifier
- 32.** Which of the following is/are a key provision of the Information Technology Act, 2000?
- I. Legal recognition of electronic documents
 - II. Regulation of physical property disputes
 - III. Justice dispensation system for cyber crimes
 - IV. Definition and penalties for cyber offences
- Choose the correct option:**
- A) II and IV
 - B) II, III, and IV
 - C) II only
 - D) I, III, and IV
- 33.** Which of the following issues are typically addressed while establishing an IT Policy in an organization?
- I. Regulation of inappropriate use of IT resources, such as web surfing, blogging, personal emailing, and other non-business activities
 - II. Protection of IT security through good practices, such as not sharing user IDs and passwords, using strong passwords, and changing them frequently
 - III. Prevention of harassment or abuse through IT resources, such as sending abusive emails or other intimidating behaviour
- Choose the correct option:**
- A) I only
 - B) II only
 - C) I and III
 - D) I, II, and III
- 34.** Which of the following provisions of the Indian Information Technology Act, 2000, is most relevant for penalties regarding breaching confidentiality and privacy?
- A) Section 43
 - B) Section 66
 - C) Section 69
 - D) Section 72
- 35.** What is the term of copyright for an author of a book under the Indian Copyright Act, 1957?
- A) 50 years from the date of publication
 - B) The life of the author
 - C) Lifetime of the author + 60 years
 - D) 70 years from the date of publication

- 36.** Consider the following statements related to switching techniques:
- I. FDM and TDM are the common multiplexing techniques implemented in circuit switching
 - II. Packet switching uses a single link, which can result in queuing delays and packet loss
 - III. Packet switching offers better sharing of transmission capacity compared to circuit switching

Which of the above statements is/are correct?

- A) I and II
- B) II and III
- C) I and III
- D) I, II, and III

- 37.** Which of the following networking devices is used for interconnecting networks on different protocols?
- I. Bridge
 - II. Hub
 - III. Gateway

Choose the correct option:

- A) II and III
- B) III only
- C) I and II
- D) II only

- 38.** Which of the following protocols is/are used in the Internet?
- I. HTTP
 - II. DHCP
 - III. DNS

Choose the correct option:

- A) I and III
- B) I only
- C) I and II
- D) I, II, and III

- 39.** What is the main function of the Internet Key Exchange protocol?
- A) Encrypting web traffic
 - B) Establishing a secure and authenticated communication channel
 - C) Routing data packets on the internet
 - D) Handling domain name management

- 40.** In which of the following addressing modes does the operand immediately follow the op-code?
- A) Direct
 - B) Indexed
 - C) Immediate
 - D) Based

- 41.** Which of the following is a key feature of Integrated Services Digital Network?
- A) It provides only a transport layer service in the OSI model
 - B) It uses out-of-band signalling and provides a physical layer service for layers 2 to 7
 - C) It requires specific types of data sources for bit transmission
 - D) It uses the same signalling method as Local Area Networks (LANs)
- 42.** Arrange the following steps in the proper sequence for the process of data transmission using the TCP/IP protocol suite:
- I. The application layer sends the data to the transport layer.
 - II. The destination application receives the data from the application layer.
 - III. The Internet layer adds IP addresses to the packets for routing.
 - IV. The link layer transmits the packets over the physical medium.
 - V. The data is segmented into smaller packets by the transport layer.
- Choose the correct answer from the options given below:**
- A) I, V, III, IV, II
 - B) II, I, III, IV, V
 - C) III, I, IV, II, V
 - D) I, III, IV, II, V
- 43.** Consider the following statements:
- I. The full form of OSI is Operating Systems Interconnection
 - II. Web service facilitates the communication between nodes in a network
- Which of the following statements is/are correct?**
- A) Both I and II
 - B) I only
 - C) II only
 - D) Neither I nor II
- 44.** Match the following terms with their correct descriptions:

Column - X

- 1. VPN
- 2. ISP
- 3. Encryption

Column - Y

- I. Converts information into code to prevent unauthorized access
- II. A company that provides access to the Internet
- III. Ensures security by scrambling data and masking user's IP address

Choose the Correct Option:

- A) 1-III, 2-II, 3-I
- B) 1-I, 2-II, 3-III
- C) 1-II, 2-III, 3-I
- D) 1-I, 2-III, 3-II

45. Which of the following best describes the primary function of a modem?
- A) To amplify analog signals for better transmission
 - B) To convert digital signals to analog for transmission and analog signals back to digital for reception
 - C) To convert speech signal into text
 - D) Both B and C
46. Which of the following uses the same key for both encryption and decryption?
- A) Symmetric encryption
 - B) Hybrid encryption
 - C) Public-key encryption
 - D) Hashing

47. Match the type of cyber attack with their correct descriptions

Column - X

- 1. Botnet attack
- 2. DDoS attack
- 3. Zero-day attack

Column - Y

- I. Targets a website or server with a flood of traffic
- II. Exploits an unknown software vulnerability with no available patch
- III. A network of infected computers controlled by a single attacker

Choose the Correct Option:

- A) 1-III, 2-II, 3-I
- B) 1-I, 2-II, 3-III
- C) 1-III, 2-I, 3-II
- D) 1-I, 2-III, 3-II

48. Match the type of topologies with their correct descriptions:

Column - X

- 1. Bus
- 2. Ring
- 3. Mesh

Column - Y

- I. Uses a single cable that connects all the nodes
- II. Uses tokens to pass information from one computer to another
- III. Every node is directly connected

Choose the Correct Option:

- A) 1-III, 2-II, 3-I
- B) 1-I, 2-II, 3-III
- C) 1-III, 2-I, 3-II
- D) 1-I, 2-III, 3-II

49. Which of the following protocols is primarily used in Peer-to-Peer file sharing?

- A) HTTP
- B) FTP
- C) BitTorrent
- D) SMTP

50. Which of the following protocols uses both TCP and UDP?

- I. FTP
- II. SMTP
- III. Telnet
- IV. DNS

Choose the Correct Option:

- A) I, II and III
- B) I and II
- C) III only
- D) IV only

51. Identify the correct order of the following stages (I-V) when an email is sent and received:

- I. The sender's ISP mail server decides how to route the message, and the message travels over the Internet and arrives at the recipient's ISP mail server
- II. Message is retrieved and sent to the recipient's computer to be opened and read
- III. The sender composes the message and activates the send command
- IV. Message is held in the recipient's electronic mailbox, and the recipient logs in to read their messages
- V. The message is sent to the sender's ISP mail server, which examines the address associated with the message

Choose the Correct Option:

- A) III, V, I, II, IV
- B) I, III, II, IV, V
- C) IV, II, III, V, I
- D) III, V, I, IV, II

52. Which of the following is a search engine?

- I. Opera
- II. Bing
- III. Google
- IV. Yahoo

Choose the Correct Option:

- A) I and III
- B) II, III and IV
- C) I, II and III
- D) I and II

53. Which TCP port does the Telnet protocol use by default for communication?

- A) TCP port 21
- B) TCP port 22
- C) TCP port 23
- D) TCP port 25

54. In a typical Telnet session, what type of authentication is used?

- A) Token-based authentication
- B) Username and password
- C) Biometric authentication
- D) Two-factor authentication

55. File Transfer Protocol (FTP) uses the following for control and data connection.
- A) Control connection: Stateless connection, Data connection: Non-persistent TCP connection
 - B) Control connection: Persistent TCP connection, Data connection: Non-persistent TCP connection
 - C) Control connection: Non-persistent TCP connection, Data connection: Persistent TCP connection
 - D) None of the above
56. Which method is used for keeping sensitive information in email communication and accounts secure against unauthorised access, loss, or compromise?
- A) Encryption
 - B) Firewall
 - C) Antivirus
 - D) Secure gateways
57. Which of the following is/are an example of a desktop-based email client?
- I. Outlook Express
 - II. Netscape Mail
 - III. Gmail
 - IV. Thunderbird
- Choose the Correct Option:**
- A) III only
 - B) I and III
 - C) I, II, III and IV
 - D) I, II and IV
58. What is the primary purpose of an email client?
- A) To manage and store email messages on a server
 - B) To retrieve, send, and organize email messages on a user's device
 - C) To protect email servers from cyber threats
 - D) To send and receive emails only over a local network
59. Consider the following statements:
A digital signature is:
- I. An electronic record that identifies the certifying authority issuing it
 - II. An electronic method of signing an electronic document and ensuring that the original content is unchanged
- Which of the statements given above is/are correct?**
- A) I only
 - B) I and II
 - C) II only
 - D) Neither I nor II
60. What is the default port number used by the SMTP (Simple Mail Transfer Protocol) for sending email?
- A) 21
 - B) 22
 - C) 25
 - D) 32

- 61.** Webpages are typically saved in which format?
- A) .docx
 - B) .html
 - C) http://
 - D) .txt
- 62.** What does 'EOQ' stand for in Inventory Control?
- A) Economic Order Quantity
 - B) Effective Order Quality
 - C) Efficient Operational Quantity
 - D) Estimated Order Quota
- 63.** Which of the following statements about the scope of E-commerce compared to E-Business or Digital Business are correct?
- I. E-commerce focuses primarily on online buying and selling, while E-Business includes additional processes like supply chain management and customer relationship management
 - II. E-commerce has a narrower scope as it deals only with commercial transactions
 - III. E-Business or Digital Business has a broader scope as it includes both online and offline business activities
 - IV. E-commerce encompasses all aspects of business operations, including production and logistics.

Choose the Correct Option:

- A) I only
 - B) I, II, and III only
 - C) I and III only
 - D) IV only
- 64.** Which of the following examples best represents the "Coordination" level of collaboration in groupware?
- A) Exchanging messages in a chat discussion
 - B) Conducting a brainstorming session to generate ideas
 - C) A sports team working together, each player contributing differently to achieve a common goal
 - D) Participating in a video call to discuss project updates
- 65.** Which technology allows 4G networks to achieve high speeds?
- A) CDMA
 - B) OFDM
 - C) DSSS
 - D) FHSS

66. Which of the following attributes is used to set the source of an image in HTML?
- A) href
 - B) src
 - C) alt
 - D) source
67. Which of the following is an advantage of using Standard Generalized Markup Language (SGML)?
- A) It allows for the representation of multimedia content in a standardised format
 - B) It provides a flexible structure for creating and sharing documents with different formats
 - C) It is easier to implement than HTML for web development
 - D) It automatically adjusts content for different screen sizes and devices
68. Which tag is used to insert the largest heading in HTML?
- A) <tag0>
 - B) <mainhead>
 - C) <h1>
 - D) <h0>
69. Which of the following is a meta-search engine that aggregates results from multiple search engines?
- A) Dogpile
 - B) Google
 - C) Bing
 - D) DMOZ
70. Which of the following is/are one of the ways by which we can access and use mailboxes?
- I. Email clients
 - II. Webmail
 - III. Pager
- Choose the Correct Option:**
- A) III only
 - B) I and II
 - C) II and III
 - D) I, II and III
71. Which of the following is a *valid* HTML code snippets?
- A) size
 - B)
 - C) <red>
 - D) All of the above are style tags

72. Which of the following principles are involved in the digitization of multimedia content?
- A) Sampling, Quantization, Compression, and Synchronization
 - B) Compression, Sampling, Manual Editing, and Encoding
 - C) Encoding, Metadata Annotation, Synchronization, and Painting
 - D) Sampling, Printing, Resolution, and Quantization

73. Which is/are feature(s) of GUI that makes learning a program easy for users?
- I. WYSIWYG formatting
 - II. Dialogue boxes
 - III. Detailed keystrokes and commands

Choose the Correct Option:

- A) I and II
- B) III only
- C) II and III
- D) I, II and III

74. In which format is the HTML document saved?

- A) BCD codes
- B) Special binary format
- C) ASCII Text
- D) Machine language codes

75. The HTML element used to enter a scrolling area of text is called

- A) <marquee>
- B) <scroll>
- C) <frame>
- D) <div>

76. Match column - X with column - Y:

Column - X

- 1. DHTML
- 2. XML
- 3. JAVA

Column - Y

- I. Allows for dynamic and interactive web pages
- II. Object-oriented programming language for web applications
- III. Used for data storage and exchange

Choose the Correct Option:

- A) 1-III, 2-II, 3-I
- B) 1-I, 2-II, 3-III
- C) 1-III, 2-I, 3-II
- D) 1-I, 2-III, 3-II

77. Which of these is the correct output for the JavaScript code given below?

```
let X= 'My';
let Y= 'Country';
alert(X+Y);
```

- A) Mycountry
- B) My Country
- C) MyCountry
- D) My+Country

78. Which of the following keywords is used to declare a variable in VBScript?
- A) Let
 - B) Var
 - C) Dim
 - D) None of the above
79. Which company developed the JavaScript programming language?
- A) Microsoft
 - B) Apple
 - C) Netscape
 - D) Google
80. Which ASP.NET object is responsible for managing and preserving the state of an individual client?
- A) Session object
 - B) Application object
 - C) Response object
 - D) Server object
81. Which type of virus attaches with .EXE files and the resulting infected .EXE file attacks other .EXE files and infects them?
- A) Boot sector Virus
 - B) Parasitic Virus
 - C) Stealth Virus
 - D) Memory Resistant virus
82. What is the block size used by the Data Encryption Standard (DES) algorithm in cryptography?
- A) 56 bits
 - B) 64 bits
 - C) 256 bits
 - D) 512 bits

83. Match Column - X with Column - Y:

Column - X (Copyright Act, 1957)

- 1. Section 40
- 2. Section 64
- 3. Section 14

Column - Y (Description)

- I. Defines the meaning of 'copyright' and exclusive rights
- II. Power to extend copyright to foreign works
- III. Deals with the Power of police to seize infringing copies.

Choose the Correct Option:

- A) 1-III, 2-II, 3-I
- B) 1-II, 2-III, 3-I
- C) 1-II, 2-I, 3-III
- D) 1-I, 2-III, 3-II

84. Which of the following is a type of firewall that filters traffic based on IP addresses and ports?
- A) Application firewall
 - B) Packet-filtering firewall
 - C) Proxy firewall
 - D) Stateful inspection firewall
85. What is the primary purpose of a firewall in network security?
- A) To encrypt data transmitted over the network
 - B) To monitor and control incoming and outgoing network traffic based on security rules
 - C) Speed up internet connection
 - D) To prevent hardware failures in network devices
86. Who created the World Wide Web?
- A) Tim Berners-Lee
 - B) Vint Cerf
 - C) Mark Zuckerberg
 - D) Larry Page
87. Which of the following is a key concern in Internet governance?
- A) Net Neutrality
 - B) Privacy and data protection
 - C) Security and cybercrime
 - D) All of the above
88. A Task Force on Artificial Intelligence (AI) for India's Economic Transformation was constituted by
- A) Department of Science and Technology
 - B) Ministry of Commerce and Industry
 - C) Ministry of Electronics and Information Technology
 - D) Ministry of Education
89. Which of the following is a form of cybercrime where criminals use fraudulent emails or websites to steal sensitive personal information, such as passwords or credit card details?
- A) Ransomware
 - B) Phishing
 - C) DDoS attack
 - D) Hacking
90. **Assertion:** Online banking and financial services are critical aspects of e-commerce.
Reasoning: These services enable secure transactions and allow businesses to accept payment over the Internet.
- Which of the following is correct?**
- A) Both the assertion and reasoning are true, and the reasoning is the correct explanation for the assertion
 - B) Both the assertion and reasoning are true, but the reasoning is not the correct explanation for the assertion
 - C) The assertion is true, but the reasoning is false
 - D) The assertion is false, but the reasoning is true

91. What was the significance of the ARPANET protocol suite?
- A) It allowed web browsers to interact with servers
 - B) It allowed multiple networks to interconnect and communicate
 - C) It increased the security of digital communications
 - D) It enabled satellite connectivity for spying
92. Which network technology was pioneered by ARPANET?
- A) Circuit switching
 - B) Packet switching
 - C) Optical fiber technology
 - D) WiFi
93. **Assertion:** A router is a device that forwards data packets between computer networks.
Reasoning: A router examines the destination address and directs traffic to its appropriate destination.
Which of the following is correct?
- A) Both assertion and reasoning are correct, and the reasoning correctly explains the assertion.
 - B) Both assertion and reasoning are correct, but the reasoning does not correctly explain the assertion.
 - C) The assertion is correct, but the reasoning is incorrect.
 - D) Both assertion and reasoning are incorrect.
94. Which of the following is a feature of an IPv6 address?
- A) It has a 32-bit address length
 - B) It uses dotted-decimal notation
 - C) It supports a significantly larger address space than IPv4
 - D) It supports broadcasting and multicasting
95. Which organization manages the domain ".org"?
- A) Public Interest Registry
 - B) Internet Corporation for Assigned Names and Numbers
 - C) Google
 - D) Amazon
96. Which shortcut key is used in Microsoft PowerPoint to create a new blank presentation?
- A) Ctrl + X
 - B) Ctrl + S
 - C) Ctrl + N
 - D) Ctrl + O
97. Match the Column - X with Column - Y with reference to Microsoft PowerPoint.
- | Column - X (Shortcuts) | Column - Y (Description) |
|------------------------|--|
| 1. Alt+F5 | I. Hide the pointer and navigation buttons |
| 2. Ctrl+H | II. Start the presentation in the Presenter's View |
| 3. Shift+F5 | III. Start the presentation from the current slide |
- Choose the Correct Option:**
- | | |
|---------------------|---------------------|
| A) 1-III, 2-II, 3-I | B) 1-II, 2-III, 3-I |
| C) 1-II, 2-I, 3-III | D) 1-I, 2-III, 3-II |

98. What feature allows you to add dynamic effects to the text in PowerPoint?
- A) Slide Layout
 - B) Hyperlink
 - C) Animations
 - D) SmartArt
99. In most presentation packages, which option allows the user to add .jpg file to slides?
- A) Tools > Spell Check
 - B) File > Export
 - C) View > Slide Master
 - D) Insert > Images
100. Which of the following options in a presentation package would you use to create interactive elements, such as hyperlinks, within a slide show?
- A) Slide Transitions
 - B) Action Settings
 - C) Slide Sorter
 - D) Slide Layout
101. What does the abbreviation “BASIC” stand for?
- A) Binary Arithmetic System for Integrated Calculations
 - B) Beginner’s All-purpose Symbolic Instruction Code
 - C) Basic Algorithm for Scientific and Industrial Computation
 - D) Binary Assembly and Scripting Interface Compiler
102. Consider the following statements regarding non-impact printers:
- I. An image is placed by striking a ribbon on the page
 - II. These printers are also known as page printers
- Which of the following statements is/are correct?**
- A) I only
 - B) II only
 - C) Both I and II
 - D) Neither I nor II
103. Which type of memory has the fastest access time?
- A) Hard disk
 - B) RAM
 - C) Cache memory
 - D) Virtual memory
104. Which of the following is NOT a phase of the compiler design process?
- A) Syntax Analysis
 - B) Code Generation
 - C) Memory Management
 - D) Lexical Analysis

- 105.** Which of the following devices is used to input visual data to a computer?
- A) Keyboard
 - B) Scanner
 - C) Webcam
 - D) Joystick
- 106.** Which of the following statements is correct regarding CISC/RISC processors?
- A) CISC has simpler instruction set than RISC
 - B) CISC requires more number of registers than RISC
 - C) CISC can execute multiple operations in a single instruction as compared to RISC
 - D) Both A and B are correct
- 107.** Which of the following is a significant benefit of using multimedia applications in education?
- A) It eliminates the need for teachers in the classroom
 - B) It caters to diverse learning styles and improves understanding of complex concepts
 - C) It reduces the importance of textbooks in the curriculum
 - D) It only provides visual content for student entertainment
- 108.** Match the Column - X with Column - Y
- | Column - X (Multimedia Formats) | Column - Y (Categories) |
|--|--------------------------------|
| 1. .png | I. Audio |
| 2. .mp4 | II. Video |
| 3. .mp3 | III. Image |
- Choose the Correct Option:**
- A) 1-III, 2-II, 3-I
 - B) 1-II, 2-III, 3-I
 - C) 1-III, 2-I, 3-II
 - D) 1-I, 2-III, 3-II
- 109.** Which of the following is NOT a Open-Source Software?
- A) Firefox
 - B) LibreOffice
 - C) Microsoft Office
 - D) Thunderbird
- 110.** Which of the following statements accurately explains the relationship between hardware, system software, and application software?
- A) System software directly interacts with hardware, while application software interacts with the system software to perform user-specific tasks
 - B) System software and application software function independently, with no need for interaction between them
 - C) Hardware is solely controlled by application software, and system software is irrelevant in managing hardware resources
 - D) System software and hardware are designed to function independently, with application software primarily controlling hardware operations

- 111.** Which of the following statements best explains the functionality of a Linux kernel in the context of system operations?
- A) The Linux kernel serves as a graphical interface allowing users to interact directly with the hardware
 - B) It manages system resources, including memory, process scheduling, and device drivers, acting as a bridge between hardware and software applications
 - C) The Linux kernel is an optional component that can be removed or replaced entirely by the user
 - D) It provides a user-friendly GUI interface for managing computer networks
- 112.** Which of the following statements accurately describe the functionalities of essential system tools such as Disk Cleanup, Disk Defragmenter, and Imaging Fax?
- I. Disk Cleanup analyzes and removes temporary files, system cache, and unnecessary application logs
 - II. Disk Defragmenter consolidates fragmented data on an SSD to enhance its performance
 - III. Imaging Fax supports document scanning, image optimization, and fax transmission over a network
 - IV. Disk Defragmenter improves file access speed by reorganizing data on mechanical hard drives
 - V. Disk Cleanup can detect and resolve hardware errors on the disk
- Which of the following statements is/are correct?**
- A) I, III and IV
 - B) I, II, III, and IV
 - C) I, III and V
 - D) All statements are correct
- 113.** What does the command xcopy /s do in Command Prompt?
- A) Copies files with hidden attributes only
 - B) Copies directories and subdirectories that contain files
 - C) Copies files but excludes hidden files
 - D) Copies files in the current directory, excluding hidden ones and empty ones
- 114.** Which of the following is a characteristic feature of the Linux operating system?
- A) It can be modified and distributed freely
 - B) It is only available for desktop computers
 - C) It uses the Windows kernel for its system operations
 - D) It is a proprietary operating system that requires a license
- 115.** Which version of Windows was the first to support the Windows Store for downloading apps?
- A) Windows 7
 - B) Windows 8
 - C) Windows Vista
 - D) Windows 10

116. Assertion (A): In Linux, the /root directory is equivalent to the “/Documents” folder in Windows.

Reason (R): Linux assigns a unique directory for each user, and /root is reserved specifically for the superuser.

Which of the following is correct?

- A) Both A and R are true, and R is the correct explanation of A
- B) Both A and R are true, but R is not the correct explanation of A
- C) A is true, but R is false
- D) A is false, but R is true

117. Match the Column - X with Column - Y

Column - X

- 1. Batch Files
- 2. Directory Structure
- 3. File System in Linux

Column - Y

- I. The hierarchy in which files and folders are organized
- II. Text file containing a sequence of commands to be executed
- III. Organized into /root, /home, /usr, and other directories

Choose the correct option:

- A) 1-III, 2-II, 3-I
- B) 1-II, 2-I, 3-III
- C) 1-III, 2-I, 3-II
- D) 1-I, 2-II, 3-III

118. Assertion (A): WordPad offers more advanced features than Notepad, making it a better tool for rich text editing.

Reason (R): WordPad supports formatting, font styles, and multimedia, while Notepad is limited to plain text.

Which of the following is correct?

- A) Both A and R are true, and R is the correct explanation of A.
- B) Both A and R are true, but R is not the correct explanation of A.
- C) A is true, but R is false.
- D) A is false, but R is true.

119. Which of the following file systems is not natively supported in Windows Operating System?

- A) FAT32
- B) exFAT
- C) HFS
- D) NTFS

120. Which of the following is the default directory for user files in Linux?

- A) /usr
- B) /etc
- C) /home
- D) /bin

ROUGH WORK



(Set - A)

(24)