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Roll No. _____

Question Booklet Number

O.M.R. Serial No. :

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BCA II Semester (NEP Back Paper) Examination, 2025-26

INTERNET TECHNOLOGY AND WEB DESIGN

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| Paper Code | | | | | | |
| B | C | A | 2 | 0 | 0 | 2 |

Question Booklet Series

A

Time : 1 : 30 Hours]

[Maximum Marks : 75

Instructions to the Examinee :

1. Do not open the booklet unless you are asked to do so.
2. The booklet contains 100 questions. Examinee is required to answer 75 questions in the OMR Answer-Sheet provided and not in the question booklet. **All** questions carry equal marks.
3. Examine the Booklet and the OMR Answer-Sheet very carefully before you proceed. Faulty question booklet due to missing or duplicate pages/questions or having any other discrepancy should be got immediately replaced.
4. Four alternative answers are mentioned for each question as – A, B, C & D in the booklet. The candidate has to choose the correct answer and mark the same in the OMR Answer-Sheet as per the direction :

(Remaining instructions on the last page)

परीक्षार्थियों के लिए निर्देश :

1. प्रश्न-पुस्तिका को तब तक न खोलें जब तक आपसे कहा न जाए।
2. प्रश्न-पुस्तिका में 100 प्रश्न हैं। परीक्षार्थी को 75 प्रश्नों को केवल दी गई OMR आन्सर-शीट पर ही हल करना है, प्रश्न-पुस्तिका पर नहीं। **सभी** प्रश्नों के अंक समान हैं।
3. प्रश्नों के उत्तर अंकित करने से पूर्व प्रश्न-पुस्तिका तथा OMR आन्सर-शीट को सावधानीपूर्वक देख लें। दोषपूर्ण प्रश्न-पुस्तिका जिसमें कुछ भाग छपने से छूट गये हों या प्रश्न एक से अधिक बार छप गए हों या उसमें किसी अन्य प्रकार की कमी हो, तो उसे तुरन्त बदल लें।
4. प्रश्न-पुस्तिका में प्रत्येक प्रश्न के चार सम्भावित उत्तर- A, B, C तथा D हैं। परीक्षार्थी को उन चारों विकल्पों में से सही उत्तर छँटना है। उत्तर को OMR उत्तर-पत्रक में सम्बन्धित प्रश्न संख्या में निम्न प्रकार भरना है :

(शेष निर्देश अन्तिम पृष्ठ पर)

Rough Work

1. Which organization is responsible for the overall coordination of the Internet's IP address spaces and Domain Name System (DNS) management?
 - (A) IEEE
 - (B) ICANN
 - (C) ARPA
 - (D) ISO
2. In Java, which keyword is used to prevent a variable from being modified after its initial assignment?
 - (A) static
 - (B) volatile
 - (C) final
 - (D) abstract
3. Which HTML tag is used to create a hyperlink?
 - (A) <link>
 - (B) <a>
 - (C) <href>
 - (D) <url>
4. What is the main purpose of a Firewall in a network?
 - (A) To increase bandwidth
 - (B) To block unauthorized access while permitting outward communication
 - (C) To store web pages for faster access
 - (D) To assign IP addresses to workstations
5. Which of the following is considered "Level One" Internet connectivity?
 - (A) Dial-up connection
 - (B) Leased Line
 - (C) Gateway Connection
 - (D) ISDN
6. Which Java access modifier allows a member to be accessed only within its own class?
 - (A) public
 - (B) protected
 - (C) default
 - (D) private
7. In the context of the World Wide Web, what does the "HTTP" protocol stand for?
 - (A) High Text Transfer Protocol
 - (B) Hypertext Transfer Protocol
 - (C) Hyperlink Terminal Text Protocol
 - (D) Hyper Transfer Technology Process
8. Which concept of Object-Oriented Programming (OOP) is defined as "wrapping data and methods into a single unit"?
 - (A) Inheritance
 - (B) Polymorphism
 - (C) Encapsulation
 - (D) Abstraction

9. What was the first operational packet-switching network and the predecessor to the modern Internet?
- (A) NSFNET
 - (B) ARPANET
 - (C) INTRANET
 - (D) ETHERNET
10. Which HTML attribute is used to specify the destination of a link?
- (A) src
 - (B) alt
 - (C) href
 - (D) link
11. A "Node" in a network refers to:
- (A) Only the central server
 - (B) Any device connected to the network
 - (C) The physical cable used for connection
 - (D) The speed of the data transfer
12. Which security threat specifically involves sending deceptive emails to trick users into revealing sensitive information?
- (A) Spoofing
 - (B) Phishing
 - (C) Sniffing
 - (D) Spamming
13. What is the correct syntax for a main method in a Java application?
- (A) `public void main(String args[])`
 - (B) `static void main(String args)`
 - (C) `public static void main(String[] args)`
 - (D) `private static void main(String[] args)`
14. Which HTML tag is used to define an internal style sheet?
- (A) `<script>`
 - (B) `<css>`
 - (C) `<style>`
 - (D) `<layout>`
15. What is "Bandwidth" in the context of networking?
- (A) The length of the cable
 - (B) The number of computers on a LAN
 - (C) The data transfer capacity of a network channel
 - (D) The physical width of a router
16. Which of the following is a "Non-Primitive" data type in Java?
- (A) `int`
 - (B) `boolean`
 - (C) `String`
 - (D) `char`

17. The principle of "Net Etiquette" (Netiquette) suggests:
- (A) Using all caps for emphasis
 - (B) Respecting others' privacy and time
 - (C) Forwarding all chain emails
 - (D) Sharing passwords with administrators
18. Which device is used to connect a computer to a telephone line for Internet access by converting digital signals to analog?
- (A) Router
 - (B) Switch
 - (C) Modem
 - (D) Hub
19. In Java, which operator is used for "Explicit Type Casting"?
- (A) (type)
 - (B) typeof
 - (C) instanceof
 - (D) as
20. Which HTML tag is used to create a table row?
- (A) <td>
 - (B) <th>
 - (C) <tr>
 - (D) <table>
21. What is the primary purpose of a "Search Engine Meta Tag"?
- (A) To display images on the page
 - (B) To provide metadata about the HTML document to search engines
 - (C) To encrypt the website data
 - (D) To link to external CSS files
22. Which network topology/type is generally restricted to a single building or campus?
- (A) WAN
 - (B) MAN
 - (C) LAN
 - (D) GAN
23. "Information Privacy" on the Internet primarily deals with:
- (A) The speed of the connection
 - (B) The right of individuals to control their personal data
 - (C) The cost of web hosting
 - (D) The number of emails sent per day
24. Which Java loop is guaranteed to execute at least once?
- (A) for
 - (B) while
 - (C) do-while
 - (D) foreach
25. What does SGML stand for in Web Publishing?
- (A) Standard General Markup Language
 - (B) Simple Global Markup Language
 - (C) System General Management Link
 - (D) Standard Graphic Markup Language

26. Which of these is a valid "Web Publishing" tool?
- (A) Adobe Dreamweaver
 - (B) Java JDK
 - (C) Norton Antivirus
 - (D) WinZip
27. In Java, what is the default value of an uninitialized int instance variable?
- (A) null
 - (B) 0
 - (C) 1
 - (D) Undefined
28. A "Host" in a network environment is:
- (A) A computer that provides services to other computers
 - (B) The person who manages the network
 - (C) The physical rack where servers are kept
 - (D) A specific type of Ethernet cable
29. Which HTML tag is used to display an image?
- (A) <picture>
 - (B) <src>
 - (C)
 - (D) <graphic>
30. "Interoperability" refers to:
- (A) The ability of different systems and software to communicate and exchange data
 - (B) The physical distance between two nodes
 - (C) The speed of a modem
 - (D) The number of layers in an OS
31. Which Java feature allows a subclass to provide a specific implementation of a method already defined in its superclass?
- (A) Overloading
 - (B) Overriding
 - (C) Multithreading
 - (D) Encapsulation
32. The "History of the World Wide Web" began at CERN with the work of:
- (A) Bill Gates
 - (B) Tim Berners-Lee
 - (C) Steve Jobs
 - (D) Vint Cerf
33. Which of the following is an example of "Commerce on the Internet"?
- (A) Sending a personal email
 - (B) Browsing a Wikipedia article
 - (C) Purchasing a book on Amazon
 - (D) Writing a Java program

34. Which keyword is used in Java to inherit a class?
(A) implements
(B) extends
(C) inherits
(D) super
35. What is the function of a "Web Browser"?
(A) To host website files
(B) To translate HTML/CSS into a visual webpage for the user
(C) To create databases
(D) To assign IP addresses
36. Which of these is a common "Email Threat"?
(A) Cookies
(B) Malware attachments
(C) Bookmarks
(D) Hyperlinks
37. In Java's JDK, what is the purpose of the bin directory?
(A) It contains the source code for the Java library
(B) It contains executable files like javac and java
(C) It contains temporary files
(D) It stores user-created documentation
38. Which HTML tag is used to create a numbered list?
(A)
(B)
(C)
(D) <list>
39. What is the role of a "Network Administrator"?
(A) Writing HTML code for the company website
(B) Managing and maintaining the network infrastructure and security
(C) Selling internet accounts to customers
(D) Designing Java applets
40. Which of the following is a "Switch-case" requirement in Java?
(A) The expression must result in a boolean
(B) Each case must end with a break to prevent fall-through
(C) It cannot be used with integers
(D) It must always have a continue statement
41. "Level Three" Internet connectivity usually refers to:
(A) Simple dial-up
(B) Network-level connection (Gateway)
(C) User-level connection
(D) Browser-level connection
42. Which Java token is used to represent a fixed value?
(A) Identifier
(B) Keyword
(C) Literal
(D) Operator

43. Which HTML tag defines the most important heading?
- (A) <h6>
 - (B) <head>
 - (C) <h1>
 - (D) <header>
44. Which protocol is primarily used for transferring files between a client and a server?
- (A) HTTP
 - (B) SMTP
 - (C) FTP
 - (D) SNMP
45. In Java, "Polymorphism" is mainly implemented through:
- (A) Private methods
 - (B) Method Overloading and Overriding
 - (C) Data Hiding
 - (D) Constant variables
46. What does "CGI" stand for in the context of early Web Development?
- (A) Common Gateway Interface
 - (B) Computer Graphics Interface
 - (C) Central Gateway Internet
 - (D) Common Graphical Integration
47. Which of the following is a "Network Security" aspect?
- (A) Integrity
 - (B) Availability
 - (C) Confidentiality
 - (D) All of the above
48. A "Workstation" is best described as:
- (A) A server that handles web requests
 - (B) A personal computer or terminal used by a single person on a network
 - (C) A router's physical location
 - (D) A bundle of fiber optic cables
49. Which Java keyword is used to create an instance of a class?
- (A) create
 - (B) new
 - (C) init
 - (D) inst
50. Which HTML element is used to define multiple sub-windows on a single page?
- (A) <iframe>
 - (B) <frameset>
 - (C) <window>
 - (D) <div>

51. What is the impact of the Internet on society regarding "Education"?
- (A) It has made learning more expensive
 - (B) It has enabled remote learning and access to global information
 - (C) It has restricted the flow of academic papers
 - (D) It has removed the need for teachers
52. In Java, which character set is used to represent characters?
- (A) ASCII
 - (B) Unicode
 - (C) EBCDIC
 - (D) ISO-8859-1
53. Which of the following is a "Service Option" provided by ISPs?
- (A) Broadband
 - (B) Fiber Optic
 - (C) Dial-up
 - (D) All of the above
54. The if-else-if statement in Java is an example of:
- (A) Iterative statement
 - (B) Selection statement
 - (C) Jump statement
 - (D) Null statement
55. Which HTML tag is used to define a cell in a table?
- (A) <cell>
 - (B) <td>
 - (C) <tr>
 - (D) <tab>
56. What is "Data Hiding" in Object-Oriented Programming?
- (A) Deleting data from the hard drive
 - (B) Making data members private to restrict direct access from outside the class
 - (C) Encrypting the source code
 - (D) Hiding the physical location of the server
57. Which protocol is used to send emails between servers?
- (A) POP3
 - (B) IMAP
 - (C) SMTP
 - (D) HTTP
58. In Java, what is the result of $5 / 2$ (assuming integer division)?
- (A) 2.5
 - (B) 2
 - (C) 3
 - (D) 0
59. Which aspect of security ensures that the sender of a message cannot later deny having sent it?
- (A) Authentication
 - (B) Non-repudiation
 - (C) Encryption
 - (D) Authorization

60. What is a "Meta-Search Engine"?
- (A) A search engine that has its own database
 - (B) A search engine that sends queries to multiple other search engines
 - (C) A search engine for medical data only
 - (D) A search engine that only searches for images
61. Which Java access modifier provides the widest accessibility?
- (A) public
 - (B) private
 - (C) protected
 - (D) default
62. What is the primary hardware requirement for a computer to connect to a LAN?
- (A) Scanner
 - (B) Network Interface Card (NIC)
 - (C) Sound Card
 - (D) Plotter
63. Which HTML attribute is used to provide alternative text for an image?
- (A) title
 - (B) alt
 - (C) src
 - (D) longdesc
64. What is the "Java JDK Directory Structure" component that contains the standard library classes?
- (A) lib
 - (B) src
 - (C) include
 - (D) jre/lib/rt.jar (or jmods in newer versions)
65. Which of the following is a "WAN" connection type?
- (A) Ethernet
 - (B) Wi-Fi
 - (C) Frame Relay
 - (D) Bluetooth
66. "Governance on the Internet" refers to:
- (A) A single world government controlling the web
 - (B) Multi-stakeholder development of shared principles and rules
 - (C) Each country having its own physical internet
 - (D) The police monitoring every email
67. Which Java operator has the highest precedence?
- (A) +
 - (B) *
 - (C) ()
 - (D) =

68. What is "Web Hosting"?
- (A) Buying a new computer
 - (B) Renting space on a server to make a website accessible on the WWW
 - (C) Installing a browser
 - (D) Designing a logo
69. In Java, a constructor:
- (A) Must have the same name as the class
 - (B) Has a return type of void
 - (C) Must be private
 - (D) Is used to destroy objects
70. Which HTML tag is used to define the body of the document?
- (A) <head>
 - (B) <body>
 - (C) <html>
 - (D) <main>
71. What is the "Anatomy of the Internet" primarily composed of?
- (A) Only wireless signals
 - (B) A backbone of high-speed routers and fiber-optic links
 - (C) A single central computer in the US
 - (D) Satellite links only
72. Which Java keyword is used to refer to the current object?
- (A) super
 - (B) current
 - (C) this
 - (D) self
73. Which of the following is an "Internet Application"?
- (A) Social Networking
 - (B) Online Banking
 - (C) Video Conferencing
 - (D) All of the above
74. "Modem Configuration" usually involves setting the:
- (A) Monitor brightness
 - (B) COM Port and Baud rate
 - (C) Keyboard layout
 - (D) Java version
75. In HTML, what does the target="_blank" attribute do?
- (A) Opens the link in the same window
 - (B) Opens the link in a new tab or window
 - (C) Downloadsthe link automatically
 - (D) Makes the link invisible

76. Which of the following is a "Primitive Data Type" in Java?
- (A) Array
 - (B) Class
 - (C) float
 - (D) Interface
77. "Document Interchange Standards" are important because:
- (A) They allow different systems to interpret documents correctly
 - (B) They make documents look colorful
 - (C) They prevent people from reading the documents
 - (D) They increase the price of software
78. What is "Abstraction" in Java?
- (A) Showing all the background details
 - (B) Hiding the complexity and showing only the essential features
 - (C) Creating many copies of the same data
 - (D) Using only integers
79. Which of these is a "Protocol Option" for Internet connections?
- (A) TCP/IP
 - (B) JPG
 - (C) MP3
 - (D) AVI
80. In HTML, how do you add a background color?
- (A) `<body color="red">`
 - (B) `<background>red</background>`
 - (C) `<body style="background-color:red;">`
 - (D) `<bgcolor>red</bgcolor>`
81. Which Java keyword is used to call the constructor of the parent class?
- (A) parent
 - (B) this
 - (C) super
 - (D) base
82. What is "Crime through the Internet" also known as?
- (A) Physical Crime
 - (B) Cyber Crime
 - (C) Paper Crime
 - (D) Social Crime
83. Which of the following is a "Network Definition" characteristic?
- (A) Shared resources
 - (B) Data communication
 - (C) Reliability
 - (D) All of the above

84. In Java, what is the purpose of the break statement?
- (A) To stop the entire program
 - (B) To exit the current loop or switch block
 - (C) To skip the current iteration of a loop
 - (D) To throw an error
85. Which HTML tag is used to create a dropdown list?
- (A) <list>
 - (B) <input>
 - (C) <select>
 - (D) <dropdown>
86. Which of these is a "Web Page Design Consideration"?
- (A) Load time
 - (B) Navigation ease
 - (C) Mobile responsiveness
 - (D) All of the above
87. Which Java feature makes it "Platform Independent"?
- (A) The use of pointers
 - (B) Bytecode and the Java Virtual Machine (JVM)
 - (C) The large number of keywords
 - (D) High-speed compilation
88. "Information Privacy" can be protected using:
- (A) Strong passwords
 - (B) Encryption
 - (C) Two-factor authentication
 - (D) All of the above
89. Which HTML tag is used to make text bold?
- (A)
 - (B) <i>
 - (C) <u>
 - (D) <bold>
90. In Java, "Inheritance" supports the concept of:
- (A) Data hiding
 - (B) Reusability
 - (C) Compilation
 - (D) Static binding
91. What is the "Selection of a Modem" usually based on?
- (A) The color of the device
 - (B) Speed (kbps/Mbps) and compatibility
 - (C) The weight of the device
 - (D) The brand of the monitor
92. Which of these is an "Internet Security and Management Concept"?
- (A) Risk Assessment
 - (B) Web Hosting
 - (C) HTML coding
 - (D) Java JDK installation

93. In Java, which operator is used for "Logical AND"?
- (A) &
 - (B) &&
 - (C) |
 - (D) ||
94. Which HTML tag is used to create a table header?
- (A) <td>
 - (B) <head>
 - (C) <th>
 - (D) <tr>
95. "Document Management" in web publishing involves:
- (A) Organizing and tracking electronic documents
 - (B) Writing the Java compiler
 - (C) Buying hardware
 - (D) Using a search engine
96. Which Java access modifier is used if no modifier is specified?
- (A) private
 - (B) public
 - (C) protected
 - (D) default (package-private)
97. The "Impact of the Internet on Society" includes:
- (A) Faster communication
 - (B) Digital divide issues
 - (C) Changes in social interaction
 - (D) All of the above
98. Which HTML tag is used to define a paragraph?
- (A) <p>
 - (B) <para>
 - (C) <text>
 - (D) <lb>
99. In Java, what happens during "Implicit Type Conversion"?
- (A) A larger data type is converted to a smaller one
 - (B) A smaller data type is automatically promoted to a larger data type
 - (C) The programmer must use a cast operator
 - (D) Data is always lost
100. What does "WWW" stand for?
- (A) World Wide Web
 - (B) World Whole Web
 - (C) Wide World Web
 - (D) Web World Wide

Rough Work

Example :

Question :

- Q. 1 (A) ● (C) (D)
- Q. 2 (A) (B) ● (D)
- Q. 3 (A) ● (C) (D)

5. Each question carries equal marks. Marks will be awarded according to the number of correct answers you have.
6. All answers are to be given on OMR Answer Sheet only. Answers given anywhere other than the place specified in the answer sheet will not be considered valid.
7. Before writing anything on the OMR Answer Sheet, all the instructions given in it should be read carefully.
8. After the completion of the examination candidates should leave the examination hall only after providing their OMR Answer Sheet to the invigilator. Candidate can carry their Question Booklet.
9. There will be no negative marking.
10. Rough work, if any, should be done on the blank pages provided for the purpose in the booklet.
11. To bring and use of log-book, calculator, pager & cellular phone in examination hall is prohibited.
12. In case of any difference found in English and Hindi version of the question, the English version of the question will be held authentic.

Impt. On opening the question booklet, first check that all the pages of the question booklet are printed properly. If there is any discrepancy in the question booklet, then after showing it to the invigilator, get another question booklet of the same series.

उदाहरण :

प्रश्न :

- प्रश्न 1 (A) ● (C) (D)
- प्रश्न 2 (A) (B) ● (D)
- प्रश्न 3 (A) ● (C) (D)

5. प्रत्येक प्रश्न के अंक समान हैं। आपके जितने उत्तर सही होंगे, उन्हीं के अनुसार अंक प्रदान किये जायेंगे।
6. सभी उत्तर केवल ओ.एम.आर. उत्तर-पत्रक (OMR Answer Sheet) पर ही दिये जाने हैं। उत्तर-पत्रक में निर्धारित स्थान के अलावा अन्यत्र कहीं पर दिया गया उत्तर मान्य नहीं होगा।
7. ओ.एम.आर. उत्तर-पत्रक (OMR Answer Sheet) पर कुछ भी लिखने से पूर्व उसमें दिये गये सभी अनुदेशों को सावधानीपूर्वक पढ़ लिया जाये।
8. परीक्षा समाप्ति के उपरान्त परीक्षार्थी कक्ष निरीक्षक को अपनी OMR Answer Sheet उपलब्ध कराने के बाद ही परीक्षा कक्ष से प्रस्थान करें। परीक्षार्थी अपने साथ प्रश्न-पुस्तिका ले जा सकते हैं।
9. निगेटिव मार्किंग नहीं है।
10. कोई भी रफ कार्य, प्रश्न-पुस्तिका में, रफ-कार्य के लिए दिए खाली पेज पर ही किया जाना चाहिए।
11. परीक्षा कक्ष में लॉग-बुक, कैल्कुलेटर, पेजर तथा सेल्युलर फोन ले जाना तथा उसका उपयोग करना वर्जित है।
12. प्रश्न के हिन्दी एवं अंग्रेजी रूपान्तरण में भिन्नता होने की दशा में प्रश्न का अंग्रेजी रूपान्तरण ही मान्य होगा।

महत्वपूर्ण : प्रश्न-पुस्तिका खोलने पर प्रथमतः जाँच कर देख लें कि प्रश्न-पुस्तिका के सभी पृष्ठ भलीभाँति छपे हुए हैं। यदि प्रश्न-पुस्तिका में कोई कमी हो, तो कक्षनिरीक्षक को दिखाकर उसी सीरीज की दूसरी प्रश्न-पुस्तिका प्राप्त कर लें।