

Roll No.-----

<b>Paper Code</b>		
<b>3</b>	<b>6</b>	<b>5</b>
(To be filled in the OMR Sheet)		

प्रश्नपुस्तिका क्रमांक  
Question Booklet No.

O.M.R. Serial No.

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प्रश्नपुस्तिका सीरीज  
Question Booklet Series  
**B**

## BCA (Second Semester) Examination, July-2022

### BCA-2002

#### Internet Technology and Web Design

Time : 1:30 Hours

Maximum Marks-100

जब तक कहा न जाय, इस प्रश्नपुस्तिका को न खोलें

- K-365**
- निर्देश : —
1. परीक्षार्थी अपने अनुक्रमांक, विषय एवं प्रश्नपुस्तिका की सीरीज का विवरण यथास्थान सही- सही भरे, अन्यथा मूल्यांकन में किसी भी प्रकार की विसंगति की दशा में उसकी जिम्मेदारी स्वयं परीक्षार्थी की होगी।
  2. इस प्रश्नपुस्तिका में 100 प्रश्न हैं, जिनमें से केवल 75 प्रश्नों के उत्तर परीक्षार्थियों द्वारा दिये जाने हैं। प्रत्येक प्रश्न के चार वैकल्पिक उत्तर प्रश्न के नीचे दिये गये हैं। इन चारों में से केवल एक ही उत्तर सही है। जिस उत्तर को आप सही या सबसे उचित समझते हैं, अपने उत्तर पत्रक (O.M.R. ANSWER SHEET) में उसके अक्षर वाले वृत्त को काले या नीले बाल प्वाइंट पेन से पूरा भर दें। यदि किसी परीक्षार्थी द्वारा किसी प्रश्न का एक से अधिक उत्तर दिया जाता है, तो उसे गलत उत्तर माना जायेगा।
  3. प्रत्येक प्रश्न के अंक समान हैं। आप के जितने उत्तर सही होंगे, उन्हीं के अनुसार अंक प्रदान किये जायेंगे।
  4. सभी उत्तर केवल ओ०एम०आर० उत्तर पत्रक (O.M.R. ANSWER SHEET) पर ही दिये जाने हैं। उत्तर पत्रक में निर्धारित स्थान के अलावा अन्यत्र कहीं पर दिया गया उत्तर मान्य नहीं होगा।
  5. ओ०एम०आर० उत्तर पत्रक (O.M.R. ANSWER SHEET) पर कुछ भी लिखने से पूर्व उसमें दिये गये सभी अनुदेशों को सावधानीपूर्वक पढ़ लिया जाय।
  6. परीक्षा समाप्ति के उपरान्त परीक्षार्थी कक्ष निरीक्षक को अपनी ओ०एम०आर० शीट उपलब्ध कराने के बाद ही परीक्षा कक्ष से प्रस्थान करें।
  7. निगेटिव मार्किंग नहीं है।
- महत्वपूर्ण : — प्रश्नपुस्तिका खोलने पर प्रथमतः जाँच कर देख लें कि प्रश्नपुस्तिका के सभी पृष्ठ भलीभाँति छपे हुए हैं। यदि प्रश्नपुस्तिका में कोई कमी हो, तो कक्ष निरीक्षक को दिखाकर उसी सीरीज की दूसरी प्रश्नपुस्तिका प्राप्त कर लें।



1. The internet supports a large system called the \_\_\_\_\_.
  - (A) Private Network Access
  - (B) World Wide Web
  - (C) World Wide Access Point
  - (D) Network Access Point
2. \_\_\_\_\_ are set of rules and procedures for communicating.
  - (A) Programs
  - (B) Algorithms
  - (C) Protocols
  - (D) Mails
3. Each computer connected to the internet must \_\_\_\_\_.
  - (A) Be an IBM PC
  - (B) Have an unique IP address
  - (C) Be internet compatible
  - (D) Have a modem connection
4. A homepage is \_\_\_\_\_.
  - (A) An index of encyclopedia articles
  - (B) Where all internet data is stored
  - (C) Required for access to the internet
  - (D) The first page of a website
5. Employee in an organization can use a part of the private intranet is called \_\_\_\_\_.
  - (A) Internet
  - (B) Intranet private
  - (C) Extranet
  - (D) Cybernet

6. \_\_\_\_\_ is a document commonly written in Hyper Text Markup Language (HTML) that is accessible through the internet or other network using an internet browser.
- (A) Word
  - (B) Web page
  - (C) Web Site
  - (D) Windows
7. A web page is located using a \_\_\_\_\_.
- (A) Universal Record Linking
  - (B) Uniform Resource Locator
  - (C) Universal Record Locator
  - (D) Uniformly Reachable Links
8. A piece of icon or image on a web page associated with another web page is called \_\_\_\_\_.
- (A) url
  - (B) hyperlink
  - (C) plugin
  - (D) connection
9. \_\_\_\_\_ is a computer program running to serve the requests of other programs.
- (A) Server
  - (B) Client
  - (C) Software
  - (D) Application
10. A web cookie is a small piece of data \_\_\_\_\_.
- (A) Sent from a website and stored in users web browser while a user is browsing a website
  - (B) Sent from user and stored in the server while a user is browsing a website
  - (C) Sent from root server to all servers
  - (D) None of the mentioned

11. \_\_\_\_\_ programs are automatically loaded and operates as a part of browser.
- (A) Utilities
  - (B) Plug-ins
  - (C) Widgets
  - (D) Add-ons
12. A website's \_\_\_\_\_ structure is more important to a user than its physical structure.
- (A) Commercial
  - (B) Logical
  - (C) File
  - (D) Data
13. A site that links every page to every other page could be considered to exhibit a structured called a \_\_\_\_\_.
- (A) Mixed form
  - (B) Mixed hierarchy
  - (C) Full mesh
  - (D) Pure tree
14. W3C is known as \_\_\_\_\_.
- (A) World Wide Web Consortium
  - (B) World Wide Web Consul
  - (C) World Wide Web Code
  - (D) World Wide Web Command
15. \_\_\_\_\_ is an FTP search tool for the internet.
- (A) Google
  - (B) Archie
  - (C) Alta Vista
  - (D) Gopher

16. SMTP stands for \_\_\_\_\_.  
(A) Simple Mail Transfer Protocol  
(B) Simple Message Transfer Program  
(C) Simple Mode Texting Program  
(D) Simple Memory Transfer Protocol
17. A \_\_\_\_\_ is a network in which the computers are connected directly, usually by some type of cable.  
(A) LAN  
(B) MAN  
(C) CAN  
(D) HAN
18. Once the email is sent, the message is broken into pieces called \_\_\_\_\_.  
(A) Packets  
(B) Process  
(C) Digits  
(D) Bytes
19. What is the domain used for non-profitable organizations ?  
(A) .gov  
(B) .ac  
(C) .com  
(D) .org
20. A \_\_\_\_\_ include the protocol the browser uses to access the file, server or domain name, the relative path and the file name.  
(A) Complete URL  
(B) Incomplete URL  
(C) Site URL  
(D) Web URL

21. What is true about private constructor ?
- (A) Private constructor ensures only one instance of a class exist at any point of time
  - (B) Private constructor ensures multiple instances of a class exist at any point of time
  - (C) Private constructor eases the instantiation of a class
  - (D) Private constructor allows creating objects in other classes
22. What is not the use of “this” keyword in Java ?
- (A) Passing itself to another method
  - (B) Calling another constructor in constructor chaining
  - (C) Referring to the instance variable when local variable has the same name
  - (D) Passing itself to method of the same class
23. What would be the behaviour if one parameterized constructor is explicitly defined?
- (A) Compilation error
  - (B) Compilation succeeds
  - (C) Runtime error
  - (D) Compilation succeeds but at the time of creating object using default constructor, it throws compilation error
24. What concepts come under Polymorphism in java ?
- (A) Method overloading
  - (B) Constructor overloading
  - (C) Method overriding
  - (D) All the above

25. Which polymorphism behavior do you see in below class ?

```
class Paint {  
    // all methods have same name  
    public void Color(int x) {  
    }  
  
    public void Color(int x, int y) {  
    }  
  
    public void Color(int x, int y, int z) {  
    }  
}
```

- (A) Method overloading
- (B) Constructor overloading
- (C) Method overriding
- (D) Run time polymorphism

26. Which polymorphism concept is applied to inheritance relationship in java programming ?

- (A) Method overloading
- (B) Constructor overloading
- (C) Method overriding
- (D) None



27. In below java code, whose “Car” will be called ?

```
class Father {  
    public void car() {  
        System.out.println(“Father’s Car”);  
    }  
}  
  
class Son extends Father {  
  
    public void car() {  
        System.out.println(“Son’s Car”);  
    }  
}  
  
public class Sample {  
    public static void main(String[] args) {  
  
        Son john = new Son();  
        john.car();  
    }  
  
}
```

- (A) Father’s Car
- (B) Son’s Car
- (C) There is an ambiguity, so no one Car
- (D) Compiler Error

28. Which of these selection statements test only for equality ?
- (A) if
  - (B) switch
  - (C) if & switch
  - (D) None of the mentioned
29. Which of the following loops will execute the body of loop even when condition controlling the loop is initially false ?
- (A) Do-while
  - (B) While
  - (C) For
  - (D) None of the mentioned
30. Which of these jump statements can skip processing the remainder of the code in its body for a particular iteration ?
- (A) Break
  - (B) Return
  - (C) Exit
  - (D) Continue
31. Which of this keyword must be used to inherit a class ?
- (A) Super
  - (B) This
  - (C) Extent
  - (D) Extends
32. A class member declared protected becomes a member of subclass of which type ?
- (A) Public member
  - (B) Private member
  - (C) Protected member
  - (D) Static member

33. Which operator is used by Java run time implementations to free the memory of an object when it is no longer needed ?
- (A) Delete
  - (B) Free
  - (C) New
  - (D) None of the mentioned
34. Which function is used to perform some action when the object is to be destroyed ?
- (A) finalize()
  - (B) delete()
  - (C) main()
  - (D) None of the mentioned
35. Web page editors works on a \_\_\_\_\_principle.
- (A) WWW
  - (B) HTML
  - (C) WYSIWYG
  - (D) WYGWYSI
36. What is a CMS in web design ?
- (A) Content Management System
  - (B) Creative Management System
  - (C) Content Mixing System
  - (D) Creatives Managerial System
37. Which of the following softwares could be used to build a website ?
- (A) Power Point
  - (B) Excel
  - (C) Dream Weaver
  - (D) ERP

38. \_\_\_\_\_ is the conversion of data into a form, called a ciphertext that cannot be easily understood by unauthorized people.
- (A) Encryption
  - (B) Decryption
  - (C) Ciphertext
  - (D) Plain text
39. \_\_\_\_\_ allow network administrators to limit a user's access to specific services on the network.
- (A) Callback
  - (B) Packet address
  - (C) Authentication servers
  - (D) RADIUS
40. \_\_\_\_\_ hides the internal address and network topology of its protected domain from outside.
- (A) SAN
  - (B) SAT
  - (C) NAT
  - (D) ARP
41. \_\_\_\_\_ allows a computer to connect to a corporate LAN over the internet.
- (A) VPN
  - (B) FTP
  - (C) HDN
  - (D) ARP
42. A \_\_\_\_\_ is a message given to a web browser by a web server which is stored by the browser in a text file.
- (A) Cache
  - (B) Cookie
  - (C) Temp
  - (D) Hosts

43. Which of the following component of web service describes interfaces to web services ?
- (A) UDDI
  - (B) WSDL
  - (C) SOAP
  - (D) None of the above
44. Which of the following is an example of connectivity ?
- (A) Floppy Disk
  - (B) Data
  - (C) Internet
  - (D) Power card
45. Inventor of www (World Wide Web) is \_\_\_\_\_.
- (A) Bill Gates
  - (B) Lee. N. Feyong
  - (C) Time Berners Lee
  - (D) Tom Berners Lee
46. Outlook Express is a \_\_\_\_.
- (A) E-Mail Client
  - (B) Browser
  - (C) Search Engine
  - (D) None of the above
47. Web pages specifically for the \_\_\_\_\_.
- (A) TV screen
  - (B) Mobile screen
  - (C) Computer screen
  - (D) ATM screen

48. Commonly used three Web-based image file formats are \_\_\_\_.
- (A) GIF, JPG, PNG
  - (B) GIF, JPG, JPEG
  - (C) GIF, MP#, MP4
  - (D) GIF, MP3, PNG
49. The computer monitor displays color by mixing the \_\_\_\_ color light.
- (A) Red, Green, Blue
  - (B) White, Black, Blue
  - (C) White, Black, Red
  - (D) White, Black, Green
50. JPG supports \_\_\_\_ bit colors.
- (A) 8
  - (B) 24
  - (C) 64
  - (D) 112
51. A program that is used to view websites is called a :
- (A) Browser
  - (B) Web viewer
  - (C) Spreadsheet
  - (D) Word processor
52. A typical modern computer uses :
- (A) Valves
  - (B) LSI chips
  - (C) Vacuum tubes
  - (D) All of these

53. Which of the following is not a type of broadband internet connection ?
- (A) Satellite
  - (B) DSL
  - (C) Dial up
  - (D) Cable
54. Servers are computers that provide resources to other computers connected to a :
- (A) Client
  - (B) Mainframe
  - (C) Super computer
  - (D) Network
55. ARPANET stands for :
- (A) Advanced Rehearse Projects Agency Network
  - (B) Advanced Research Projects Agency Newark
  - (C) Advanced Research Projects Agency Network
  - (D) None of these
56. The process of connecting to the internet account is :
- (A) Sing in
  - (B) Sing out
  - (C) Login
  - (D) Logout
57. Internet is :
- (A) A worldwide interconnected network of computers which use a common protocol to communicate with one another
  - (B) A worldwide network of computers
  - (C) An interconnected network of computers
  - (D) A local computer network

58. Smart Card is :
- (A) Processing unit for software handling
  - (B) Processing unit contains memory for storing data
  - (C) Microprocessor cards
  - (D) Special purpose cards
59. Sending an E-mail is similar to :
- (A) Sending a package
  - (B) Talking on the phone
  - (C) Writing a letter
  - (D) Drawing a picture
60. Rules for exchanging data between computers are called :
- (A) Procedures
  - (B) Protocols
  - (C) Hyperlinks
  - (D) Programs
61. The \_\_\_\_\_ project allows access to the universe of online information using two simple user interface operations.
- (A) World-wide web
  - (B) IP address
  - (C) Web browser
  - (D) All of these
62. A \_\_\_\_\_ is a software application for retrieving, presenting, and traversing information resources on the World Wide Web.
- (A) HTTP
  - (B) E-mail
  - (C) Web browser
  - (D) Search Engine



63. \_\_\_\_\_ is the basic communication language or protocol of the internet.
- (A) TCP/IP
  - (B) TCDP/IEP
  - (C) TCMP/IKP
  - (D) TCTP/ITP
64. HTML and XML are markup languages :
- (A) Specially development for the web
  - (B) Are versions of SGML
  - (C) Are based on SGML
  - (D) Independent of SGML
65. Documents converted to \_\_\_\_\_ can be published to the web.
- (A) Doc file
  - (B) Machine language
  - (C) http
  - (D) HTML
66. DNS is :
- (A) The horizontal naming system
  - (B) The distributed hierarchical naming system
  - (C) The vertical naming system
  - (D) The client server system
67. The report card and merit list forms the :
- (A) Input data
  - (B) Output data
  - (C) Data processing
  - (D) Central processing

68. Which of the following cannot be a part of an E-mail address ?
- (A) Underscore ( \_ )
  - (B) Space ( )
  - (C) At sign ( @ )
  - (D) Period ( - )
69. Most mail programs automatically complete the following two parts in an E-mail :
- (A) Form : and Subject
  - (B) Form : and To
  - (C) From : and Date
  - (D) From : and Body
70. A world wide web contains web pages :
- (A) Created using HTML
  - (B) With links to other web pages
  - (C) Residing in many computers linked together using HTML
  - (D) Residing in many computers
71. Which of the following option leads to the portability and security of Java ?
- (A) Bytecode is executed by JVM
  - (B) The applet makes the Java code secure and portable
  - (C) Use of exception handling
  - (D) Dynamic binding between objects
72. \_\_\_\_\_ is used to find and fix bugs in the Java programs.
- (A) JVM
  - (B) JRE
  - (C) JDK
  - (D) JDB

73. What is the return type of the hashCode() method in the object class ?

(A) Object

(B) Int

(C) Long

(D) Void

74. What does the expression float a = 35/0 return ?

(A) 0

(B) Not a Number

(C) Infinity

(D) Run time exception

75. What will be the output of the following program ?

```
public class Test {  
    public static void main(String[] args) {  
        int count = 1;  
        while (count <= 15) {  
            System.out.println(count % 2 == 1 ? "***" : "+++++");  
            ++count;  
        } // end while  
    } // end main  
}
```

(A) 15 times \*\*\*

(B) 15 times +++++

(C) 8 times \*\*\* and 7 times +++++

(D) Both will print only once

76. Which of the following tool is used to generate API documentation in HTML format from doc comments in source code ?
- (A) javap tool
  - (B) javaw command
  - (C) Javadoc tool
  - (D) javah command
77. Which of the following for loop declaration is not valid ?
- (A) for (int i = 99; i >= 0; i/9)
  - (B) for (int i = 7; i <= 77; i += 7)
  - (C) for (int i = 20; i >= 2; - i)
  - (D) for (int i = 2; i <= 20; i = 2\* i)
78. Secure Shell or SSH is a \_\_\_\_\_ protocol that allows data to be exchanged using a secure channel between two networked devices.
- (A) Network
  - (B) Control
  - (C) Internet
  - (D) Gateway
79. \_\_\_\_\_ access is a reliable and scalable worldwide internet access service.
- (A) Shell
  - (B) ISDN connection
  - (C) Dedicated access
  - (D) ISDN services

80. \_\_\_\_\_ Internet access is a type of internet connectivity that operates through a standard telephone line.
- (A) Shell
  - (B) Dial up
  - (C) TCP/IP
  - (D) ISDN
81. In \_\_\_\_\_ internet connection, the user will get only a textual matter of a Web Page.
- (A) Shell
  - (B) Dial up
  - (C) TCP/IP
  - (D) ISDN
82. A web browser is a \_\_\_\_\_ side software program which communicates with web servers on the internet and request information wanted by users.
- (A) Client
  - (B) Server
  - (C) Peer to peer
  - (D) Host
83. \_\_\_\_\_ is the standard protocol that allows web clients and servers to communicate.
- (A) HTML
  - (B) FTP
  - (C) URL
  - (D) HTTP

84. \_\_\_\_\_ is a collection of interconnected documents and other resources, linked by hyperlinks and URLs.
- (A) IP
  - (B) FTP
  - (C) Web
  - (D) Host
85. \_\_\_\_\_ is a search tool that sends user requests to several other search engines and/or databases and aggregates the results into a single list.
- (A) Meta search engine
  - (B) CGL
  - (C) SGML
  - (D) Hyper search engine
86. The \_\_\_\_\_ level programming interface for the Apple implementation of Open GL.
- (A) CSS
  - (B) CGL
  - (C) SGML
  - (D) HTML
87. HTML markup language is a set of markup \_\_\_\_\_.
- (A) Attributes
  - (B) Sets
  - (C) Groups
  - (D) Tags

88. Which tag inserts a line horizontally on the web page ?
- (A) <hr>
  - (B) <line>
  - (C) <line direction="horizontal">
  - (D) <tr>
89. What is the correct HTML tag for inserting a line break ?
- (A) <br>
  - (B) <lb>
  - (C) <break>
  - (D) <newline>
90. A web page displays a picture. What tag was used to display that picture ?
- (A) image
  - (B) picture
  - (C) src
  - (D) img
91. When information is sent across the internet, the \_\_\_\_\_ first breaks the information up into packets of data.
- (A) Transmission control protocol
  - (B) User datagram protocol
  - (C) Internet protocol
  - (D) Session protocol
92. \_\_\_\_\_ is the address of the web document currently displayed on the monitor.
- (A) TCP
  - (B) ISP
  - (C) URL
  - (D) UDP

93. \_\_\_\_\_ is a file left on the computer by a website's browser containing user login, password, user preferences and other personalized information.
- (A) Server
  - (B) Cache
  - (C) Backup
  - (D) Cookie
94. The internet facility for downloading and uploading files are called \_\_\_\_\_.
- (A) HTTP
  - (B) FTP
  - (C) ISP
  - (D) URL
95. \_\_\_\_\_ is a technology that governs the conduct which is socially acceptable in an online or digital.
- (A) Internet
  - (B) Internet crime
  - (C) Internet etiquette
  - (D) Internet theft
96. An \_\_\_\_\_ is a company that provides internet access to users or subscribers of its service.
- (A) ARPAnet
  - (B) Cyber net
  - (C) Internet Provider
  - (D) Internet Service Provider
97. The process of transferring files from a web page on the internet to your computer is called.
- (A) Uploading
  - (B) Forwarding
  - (C) Transferring
  - (D) Downloading



98. Moving from one website to another is called :
- (A) Transferring
  - (B) Shifting
  - (C) Browsing
  - (D) Loading
99. Verification of a login name and password is known as \_\_\_\_\_.
- (A) Configuration
  - (B) Accessibility
  - (C) Authentication
  - (D) Logging in
100. \_\_\_\_\_ is the oldest and most popular form of communication between computers.
- (A) Messenger
  - (B) Chart
  - (C) VoIP
  - (D) E-Mail

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## **Rough Work / रफ कार्य**

## **Rough Work / रफ कार्य**

**DO NOT OPEN THE QUESTION BOOKLET UNTIL ASKED TO DO SO**

1. Examinee should enter his / her roll number, subject and Question Booklet Series correctly in the O.M.R. sheet, the examinee will be responsible for the error he / she has made.
2. **This Question Booklet contains 100 questions, out of which only 75 Question are to be Answered by the examinee. Every question has 4 options and only one of them is correct. The answer which seems correct to you, darken that option number in your Answer Booklet (O.M.R ANSWER SHEET) completely with black or blue ball point pen. If any examinee will mark more than one answer of a particular question, then the answer will be marked as wrong.**
3. Every question has same marks. Every question you attempt correctly, marks will be given according to that.
4. Every answer should be marked only on Answer Booklet (O.M.R ANSWER SHEET). Answer marked anywhere else other than the determined place will not be considered valid.
5. Please read all the instructions carefully before attempting anything on Answer Booklet (O.M.R ANSWER SHEET).
6. After completion of examination, please hand over the O.M.R. SHEET to the Examiner before leaving the examination room.
7. There is no negative marking.

**Note:** On opening the question booklet, first check that all the pages of the question booklet are printed properly in case there is an issue please ask the examiner to change the booklet of same series and get another one.