

Roll No. ....

Question Booklet Number

O. M. R. Serial No.

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Question Booklet Number
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## B. C. A. (Second Semester) EXAMINATION, 2022-23

### INTERNET TECHNOLOGY AND WEB DESIGN

Paper Code						
B	C	A	2	0	0	2

Questions Booklet Series
<b>A</b>

Time : 1:30 Hours ]

[ Maximum Marks : 75

#### Instructions to the Examinee :

परीक्षार्थियों के लिए निर्देश :

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.
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 गए हों या प्रश्न एक से अधिक बार छप गए हों या उसमें किसी अन्य प्रकार की कमी हो, तो उसे तुरन्त बदल लें।

(Remaining instructions on the last page)

(शेष निर्देश अन्तिम पृष्ठ पर)

***(Only for Rough Work)***

1. Rules for exchanging data between computers are called :
  - (A) Procedures
  - (B) Protocols
  - (C) Hyperlinks
  - (D) Programs
  
2. Smart card is :
  - (A) Processing unit for software handling
  - (B) Processing unit containing memory for storing data
  - (C) Microprocessor cards
  - (D) Special purpose cards
  
3. Servers are computers that provide resources to other computers connected to a :
  - (A) Client
  - (B) Mainframe
  - (C) Supercomputer
  - (D) Network
  
4. A program that is used to view websites is called a :
  - (A) Browser
  - (B) Web viewer
  - (C) Spreadsheet
  - (D) Word processor
  
5. Which of the following is not a type of broadband internet connection ?
  - (A) Satellite
  - (B) DSL
  - (C) Dial up
  - (D) Cable
  
6. ARPANET stands for :
  - (A) Advanced Rehearse Projects Agency Network
  - (B) Advanced Research Projects Agency Newark
  - (C) Advanced Research Projects Agency Network
  - (D) None of the above
  
7. 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
  
8. A typical modern computer uses :
  - (A) Valves
  - (B) LSI chips
  - (C) Vacuum tubes
  - (D) All of the above

9. The process of connecting to the internet account is :
- (A) Sing in
  - (B) Sing out
  - (C) Login
  - (D) Logout
10. Sending an E-mail is similar to :
- (A) Sending a package
  - (B) Talking on the phone
  - (C) Writing a letter
  - (D) Drawing a picture
11. 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
12. Which of the following cannot be a part of an E-mail address ?
- (A) Underscore ( \_ )
  - (B) Space ( )
  - (C) At sign ( @ )
  - (D) Period ( - )
13. 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
14. 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 the above
15. .... is the basic communication language or protocol of the internet.
- (A) TCP/IP
  - (B) TCDP/IEP
  - (C) TCMP/IKP
  - (D) TCTP/ITP
16. Documents converted to ..... can be published to the web.
- (A) Doc file
  - (B) Machine language
  - (C) http
  - (D) HTML
17. The report card and merit list forms the :
- (A) Input data
  - (B) Output data
  - (C) Data processing
  - (D) Central processing

18. 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
19. DNS is :
- (A) the horizontal naming system
  - (B) the distributed hierarchical naming system
  - (C) the vertical naming system
  - (D) the client server system
20. 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
21. .... 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
22. Secure Shell or SSH is a ..... protocol that allows data be exchanged using a secure channel between two networked devices.
- (A) Network
  - (B) Control
  - (C) Internet
  - (D) Gateway
23. What does the expression  $\text{float a} = 35 / 0$  return ?
- (A) 0
  - (B) Not a Number
  - (C) Infinity
  - (D) Run time exception
24. 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
25. What is the return of the hashCode () method in the Object class ?
- (A) Object
  - (B) int
  - (C) long
  - (D) void

26. 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
27. Which of the following for loop declarations 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)
28. .... is used to find and fix bugs in the Java programs.
- (A) JVM  
 (B) JRE  
 (C) JDK  
 (D) JDB
29. 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
30. .... access is a reliable and scalable worldwide Internet access service.
- (A) Shell  
 (B) ISDN connection  
 (C) Dedicated access  
 (D) ISDN services
31. A web page displays a picture. What tag was used to display that picture ?
- (A) image  
 (B) picture  
 (C) src  
 (D) img
32. Which tag inserts a line horizontally on the web page ?
- (A) <hr>  
 (B) <line>  
 (C) <line direction =" horizontal">  
 (D) <tr>

33. .... is a collection of interconnected documents and other resources, linked by hyperlinks and URLs.
- (A) IP
  - (B) FTP
  - (C) Web
  - (D) Host
34. 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
35. .... is the standard protocol that allows web clients and servers to communicate.
- (A) HTML
  - (B) FTP
  - (C) URL
  - (D) HTTP
36. .... 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
37. HTML markup language is a set of markup .....
- (A) Attributes
  - (B) Sets
  - (C) Groups
  - (D) Tags
38. 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
39. The ..... level programming interface for the Apple implementation of Open GL.
- (A) CSS
  - (B) CGL
  - (C) SGML
  - (D) HTML
40. What is the correct HTML tag for inserting a line break ?
- (A) <br>
  - (B) <lb>
  - (C) <break>
  - (D) <newline>

41. .... is the oldest and most popular form of communication between computers.
- (A) Messenger
  - (B) Chart
  - (C) VoIP
  - (D) E-Mail
42. Moving from one website to another is called :
- (A) transferring
  - (B) shifting
  - (C) browsing
  - (D) loading
43. The Internet facility for downloading and uploading files are called .....
- (A) HTTP
  - (B) FTP
  - (C) ISP
  - (D) URL
44. 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
45. .... 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
46. .... 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
47. 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
48. .... is the address of the web document currently displayed on the monitor.
- (A) TCP
  - (B) ISP
  - (C) URL
  - (D) UDP



49. A/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
50. Verification of a login name and password is known as ..... .
- (A) configuration
  - (B) accessibility
  - (C) authentication
  - (D) logging in
51. 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
52. A piece of a icon or image on a web page associated with another webpage is called .....
- (A) url
  - (B) hyperlink
  - (C) plugin
  - (D) connection
53. 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
54. 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
55. Each computer connected to the internet must .....
- (A) be a IBM PC
  - (B) have an unique IP address
  - (C) be internet compatible
  - (D) have a modern connection
56. Employee in an organization can use a part of the private intranet is called .....
- (A) internet
  - (B) intranet private
  - (C) extranet
  - (D) cybernet
57. A web page is located using a .....
- (A) Universal Record Linking
  - (B) Uniform Resource Locator
  - (C) Universal Record Locator
  - (D) Uniformly Reachable Links

58. .... are set of rules and procedures for communicating.
- (A) Programs
  - (B) Algorithms
  - (C) Protocols
  - (D) Mails
59. .... 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
60. .... is a computer program running to serve the requests of other programs.
- (A) Server
  - (B) Client
  - (C) Software
  - (D) Application
61. 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
62. Once the email is sent, the message is broken into pieces called .....
- (A) Packets
  - (B) Process
  - (C) Digits
  - (D) Bytes
63. W3C is known as .....
- (A) World Wide Web Consortium
  - (B) World Wide Web Consul
  - (C) World Wide Web Code
  - (D) World Wide Web Command
64. .... programs are automatically loaded and operates as a part of browser.
- (A) Utilities
  - (B) Plug-ins
  - (C) Widgets
  - (D) Add-ons
65. 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

66. .... is an FTP search tool for the internet.
- (A) Google
  - (B) Archie
  - (C) Alta Vista
  - (D) Gopher
67. 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
68. A website's ..... structure is more important to a user than its physical structure.
- (A) commercial
  - (B) logical
  - (C) file
  - (D) data
69. SMTP stands for .....
- (A) Simple Mail Transfer Protocol
  - (B) Simple Message Transfer Program
  - (C) Simple Mode Texting Program
  - (D) Simple Memory Transfer Protocol
70. What is the domain used for non-profitable organizations ?
- (A) .gov
  - (B) .ac
  - (C) .com
  - (D) .org
71. 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
72. Which of these selection statements test only for equality ?
- (A) if
  - (B) switch
  - (C) if & switch
  - (D) None of the mentioned
73. What concepts come under Polymorphism in java ?
- (A) Method overloading
  - (B) Constructor overloading
  - (C) Method overriding
  - (D) All of the above

74. 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

75. 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

76. Which polymorphism behavior do you see in the following 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

77. 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

78. 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
79. Which polymorphism concept is applied to inheritance relationship in java programming ?
- (A) Method overloading
  - (B) Constructor overloading
  - (C) Method overriding
  - (D) None of the above
80. 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
81. .... hides the internal address and network topology of its protected domain from outside
- (A) SAN
  - (B) SAT
  - (C) NAT
  - (D) ARP
82. .... is the conversion of data into a form, called a ciphertext that cannot be easily understood by unauthorized people.
- (A) Encryption
  - (B) Decryption
  - (C) Cypertext
  - (D) Plain text
83. 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
84. Which of this keyword must be used to inherit a class ?
- (A) super
  - (B) this
  - (C) extent
  - (D) extends

85. 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
86. Web page editors works on a ..... principle.
- (A) WWW
  - (B) HTML
  - (C) WYSIWYG
  - (D) WYGWYSI
87. Which of the following softwares could be used to build a website ?
- (A) Power Point
  - (B) Excel
  - (C) Dream Weaver
  - (D) ERP
88. 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
89. What is a CMS in web design ?
- (A) Content Management System
  - (B) Creative Management System
  - (C) Content Mixing System
  - (D) Creatives Managerial System
90. .... 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
91. JPG supports ..... bit colours
- (A) 8
  - (B) 24
  - (C) 64
  - (D) 112
92. 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
93. Which of the following is an example of connectivity ?
- (A) Floppy Disk
  - (B) Data
  - (C) Internet
  - (D) Power card

94. .... allows a computer to connect to a corporate LAN over the internet.
- (A) VPN
  - (B) FTP
  - (C) HDN
  - (D) ARP
95. Which of the following component of Web service describes interfaces to web services ?
- (A) UDDI
  - (B) WSDL
  - (C) SOAP
  - (D) None of the above
96. Inventor of www (world wide web) is .....
- (A) Bill Gates
  - (B) Lee. N. Feyong
  - (C) Tim Berners Lee
  - (D) Tom Berners Lee
97. Web pages are specifically for the .....
- (A) TV screen
  - (B) mobile screen
  - (C) computer screen
  - (D) ATM screen
98. 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
99. Outlook Express is a/an .....
- (A) E-Mail Client.
  - (B) Browser.
  - (C) Search Engine.
  - (D) None of the above
100. 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

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 :

**Example :**

**Question :**

Q. 1 (A) ● (C) (D)

Q. 2 (A) (B) ● (D)

Q. 3 (A) ● (C) (D)

Illegible answers with cutting and over-writing or half filled circle will be cancelled.

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 and 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.

4. प्रश्न-पुस्तिका में प्रत्येक प्रश्न के चार सम्भावित उत्तर—A, B, C एवं D हैं। परीक्षार्थी को उन चारों विकल्पों में से सही उत्तर छँटना है। उत्तर को OMR आन्सर-शीट में सम्बन्धित प्रश्न संख्या में निम्न प्रकार भरना है :

उदाहरण :

प्रश्न :

प्रश्न 1 (A) ● (C) (D)

प्रश्न 2 (A) (B) ● (D)

प्रश्न 3 (A) ● (C) (D)

अपठनीय उत्तर या ऐसे उत्तर जिन्हें काटा या बदला गया है, या गोले में आधा भरकर दिया गया, उन्हें निरस्त कर दिया जाएगा।

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 के अन्त में, रफ-कार्य के लिए दिए खाली पेज पर ही किया जाना चाहिए।
11. परीक्षा-कक्ष में लॉग-बुक, कैलकुलेटर, 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 :** प्रश्नपुस्तिका खोलने पर प्रथमतः जाँच कर देख लें कि प्रश्न-पुस्तिका के सभी पृष्ठ भलीभाँति छपे हुए हैं। यदि प्रश्नपुस्तिका में कोई कमी हो, तो कक्षनिरीक्षक को दिखाकर उसी सिरीज की दूसरी प्रश्न-पुस्तिका प्राप्त कर लें।