

This Question Paper contains 16 printed pages.

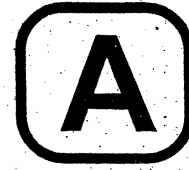
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Sl. No. : 105401

331(E)

(March, 2020)



Time : 2 Hours]

[Maximum Marks : 100

Instructions :

The OMR sheet is given for answering the questions. The answer of each question is represented by 'O', for example, (A) O, (B) O, (C) O, (D) O. Darken the circle of the correct answer with ball-pen ink. There are total 100 questions in this question paper. Each question carries 1 mark. All questions are compulsory.

- 1) In KompoZer, which of the following options is used to add Selection list?
(A) Insert → Selection List
(B) Form → Selection List
(C) File → Selection List
(D) Edit → Selection List
- 2) Which toolbar is used to give Heading-1 style to the heading of the form?
(A) Format Toolbar-1 (B) Format Toolbar-2
(C) Composition Toolbar (D) Status Bar
- 3) When we click on any item in the page, in which of the following its structure appears?
(A) Composition Toolbar (B) Format Toolbar-1
(C) Status Bar (D) Format Toolbar-2
- 4) Which attribute is used to specify where to send the form data when the form is submitted and what will be the value of it?
(A) Method, Get (B) Method, Post
(C) Action, Get (D) Action, File name

- 5) Which type of input element will convert typed characters into non readable format?
(A) Password (B) Check box
(C) Text (D) Reset
- 6) Which of the following will show a blank untitled web page in KompoZer?
(A) Edit mode toolbar (B) Format toolbar-1
(C) Site manager (D) Page pane
- 7) What should remain same for all possible answers while creating radio button?
(A) Field value (B) Group name
(C) Field selected option (D) Initially selected option
- 8) In KompoZer window, which tab of Edit Mode Toolbar should be clicked to view source code of recently created form?
(A) Design (B) Preview
(C) Source (D) Normal
- 9) While creating CSS, which button should be clicked to select the file for the background, if we want to keep an image in the background?
(A) Opacity (B) Position
(C) Tile (D) Choose File
- 10) Which of the following makes website designing quick and efficient?
(A) JavaScript (B) CSS
(C) HTML (D) Java
- 11) In the syntax of CSS, in Declaration, which of the following is / are included?
(A) HTML element
(B) Property associated with the HTML element
(C) Corresponding values of properties
(D) Both (B) and (C)

- 12) After using which option, a web page no longer remains static, but can include coding that allows interactivity with the user, control the browser and dynamically create HTML content?
- (A) JavaScript (B) CSS
(C) HTML (D) KompoZer
- 13) Which of the following statements is / are true for JavaScript?
- (i) JavaScript is used for validation of client side users
(ii) Can describe the style of the elements in document not the content
(iii) After using it, web page no longer remains static
- (A) Only (iii) (B) Only (ii) and (iii)
(C) Only (i) and (iii) (D) All (i), (ii) and (iii)
- 14) Which event would occur when element such as button becomes active?
- (A) select (B) focus
(C) click (D) mouseover
- 15) Which of the following is an event handler of 'submit' event?
- (A) submit () (B) function submit ()
(C) onsubmit () (D) onclick ()
- 16) In Browser Object Model, in which object, all the elements of the web page like forms, images, links and others are included?
- (A) Location (B) History
(C) Parent (D) Document
- 17) Which of the following will be executed by an event or when it is called inside a source code?
- (A) Function (B) Variable
(C) Event (D) If statement
- 18) Which of the following statements will stop the function from executing and return the specified value?
- (A) Return statement (B) If statement
(C) Event handler (D) All (A), (B), (C)

- 19) Which of the following plays a very important role in a business now-a-days, which helps in promoting the business, selling the products and attracting a large number of customers?
- (A) KompoZer (B) Website
(C) JavaScript (D) HTML
- 20) Which kind of information, a website should include?
- (A) In English language and translated in other language
(B) General and detailed
(C) Complete and relevant
(D) Both (B) and (C)
- 21) In Table Properties dialog box, which option is used to specify gap between cells?
- (A) Size (B) Table Alignment
(C) Spacing (D) Padding
- 22) What should be provided, if we transfer the web pages from our computer to the web host via FTP?
- (A) Name of the website
(B) Number of total pages
(C) User name and password
(D) Value of method attribute
- 23) Which open source editor is an intuitive application that provides web developers with a simple user interface, which allows them to create websites without requiring indepth technical knowledge?
- (A) Amaya (B) BlueGriffon
(C) Aptana Studio (D) KompoZer
- 24) Which of the following Open Source IDE is used to create projects in PHP, Rails, Ruby or Web?
- (A) HTML (B) BlueGriffon
(C) Amaya (D) Aptana Studio

- 25) Which option is used to create link in the website?
(A) Insert → Link (B) File → Publish
(C) Insert → Hyperlink (D) File → Upload
- 26) Which of the following kind of content provides users with the detailed information on the site like products and services description?
(A) Relevant (B) General
(C) With proper layout (D) Detailed
- 27) Which of the following application of E-commerce includes an example like the website www.irctc.co.in of Indian railways?
(A) Online Auctions (B) Marketing and Selling
(C) Information Services (D) Support Services
- 28) In which kind of business, customers can browse through products catalogue and available offers?
(A) Traditional Commerce (B) E-Commerce
(C) L-Commerce (D) All (A), (B), (C)
- 29) Which of the following is a limitation of E-commerce?
(A) Resistance to change (B) Lower cost
(C) Team work (D) Conduct business 24×7
- 30) Which of the following kind of websites provides information regarding various government departments, various welfare schemes, different application forms to be used by the citizens etc?
(A) G2B (B) G2G
(C) G2C (D) B2C
- 31) Which of the following business model allows more transparency among the business entities involved and results in more efficiency?
(A) C2C (B) C2B
(C) B2C (D) B2B

- 32) Which of the following business model is the type of E-commerce that the consumers are most likely to see on internet?
- (A) C2B (B) B2B
(C) C2C (D) B2C
- 33) Which of the following is an example of Government to Business (G2B), business model?
- (A) www.irctc.co.in
(B) www.incometaxindia.gov.in
(C) tradeindia.com
(D) amazon.com
- 34) Which of the following security aspect of E-Commerce / M-commerce protects the data from private attacks?
- (A) Confidentiality (B) Integrity
(C) Authorization (D) Non-repudiation
- 35) Which of the following are data centers which perform the credit card transactions and manage funds for the merchants?
- (A) Issuing Bank (B) Acquiring Bank
(C) Processors (D) Payment Gateway
- 36) By using which of the following cards, all the transactions will be processed within India so the cost will be reduced?
- (A) Master Card (B) Visa Card
(C) E-wallet (D) RuPay
- 37) By using which technique, the attacker tries to assume the identity of another person or system for transacting with victim site?
- (A) Sniffing (B) Spoofing
(C) Malicious code (D) Cyber vandalism
- 38) Which of the following security measures ensures that the company is not accessed by the intruders?
- (A) Firewall (B) Digital Certificate
(C) Cryptography (D) Copyright

- 39) Targeted ads, promotional messages, customer identification on a store etc. are applications of which of the following location based services?
- (A) Information or directory services
 - (B) Advertising promotion
 - (C) Emergency services
 - (D) Tracking services
- 40) In the syntax of attribute declaration in UML notation, which pair bracket values, users are supposed to specify?
- (A) { }
 - (B) []
 - (C) < >
 - (D) ()
- 41) Which are the two core elements for any computer program?
- (A) Function and Method
 - (B) Data and Layout
 - (C) Layout and Method
 - (D) Data and Function
- 42) 'Teacher is a kind of person' is an example of which of the following options?
- (A) Aggregation
 - (B) Inheritance
 - (C) Data Abstraction
 - (D) Encapsulation
- 43) What is called, the capability of using same names to mean different things in different contexts?
- (A) Overloading
 - (B) Overridden
 - (C) Layout
 - (D) Messaging
- 44) Which of the following is a general concept used to embody all the common features of a particular set of objects?
- (A) Procedures
 - (B) Polymorphism
 - (C) Data field
 - (D) Class
- 45) To identify the objects, we use the values of these attributes, these values are called what?
- (A) Data field
 - (B) Layout
 - (C) State
 - (D) Method

- 46) By using which kind of programming language, flexibility is gained by being able to change or replace modules without disturbing other parts of code?
- (A) Procedural programming
 - (B) Higher level programming language
 - (C) Object - Oriented programming language
 - (D) 'C' programming language
- 47) In which of the following, the class that forms part of the owner class can exist independently and the life of an object of the part class is not determined by the owner class?
- (A) Inheritance
 - (B) Aggregation
 - (C) Polymorphism
 - (D) Data-Abstraction
- 48) If the conditional ternary is $\text{next} = (\text{N} \% 2 == 0) ? (\text{N} / 2) : (3 * \text{N} + 1)$; where $\text{N} = 7$ then what will be the value of variable next?
- (A) 22
 - (B) 7
 - (C) 3.5
 - (D) 0
- 49) In switch statement, if no match is found between test expression and case values, then which statement will be executed?
- (A) break
 - (B) continue
 - (C) if ... else
 - (D) default
- 50) When a variable is declared inside a block, what is it called?
- (A) Global
 - (B) Local
 - (C) Label
 - (D) Repetitive
- 51) By using which of the following statements the following statements in a body are skipped and the control is transferred at the first statement after the switch statement?
- (A) continue
 - (B) default
 - (C) break
 - (D) for

- 52) Which logical operator returns true only if its operands are different (one true and one false) and false otherwise?
- (A) XOR (B) OR
(C) AND (D) NOT
- 53) Which of the following is a proper option for the statement "Is A not equal to B"?
- (A) $A < > B$ (B) $A \neq B$
(C) $A \text{ NOT } B$ (D) $A! = B$
- 54) If $a = 12.5$ and $b = 7.2$, then after executing $a \% b$, what will be the remainder?
- (A) 1 (B) 5.3
(C) 5.0 (D) 1.22
- 55) Which symbol is used to begin single-line comment?
- (A) `/*...*/` (B) `/ ** ... */`
(C) `//` (D) `\`
- 56) Which of the following is not a proper example of Hexa decimal number?
- (A) `OXFF7A` (B) `OX39A2`
(C) `OX532D` (D) `OABC`
- 57) How many basic (primitive) data types are supported in Java?
- (A) 2 (B) 4
(C) 8 (D) 16
- 58) What is the name of the data structure, where all instances of class are allocated memory?
- (A) Heap (B) JVM
(C) Garbage Collector (D) Instance

- 59) Which of the following options is provided by Java, mainly to perform initializing actions?
- (A) Constructors (B) Object
(C) Class (D) Method
- 60) Which level of protection is used to allow the access only to subclasses or to share with the methods declared as "friend"?
- (A) Private (B) Public
(C) Package (D) Protected
- 61) Which methods operate on a particular object or affect that object?
- (A) Class methods (B) Local methods
(C) Instance methods (D) Global methods
- 62) Which method is used, when we want to allow other methods to read only the data value?
- (A) setter (B) getter
(C) void (D) return
- 63) Which kind of relationship is established between classes by composition and aggregation?
- (A) A-kind-of (B) has-a
(C) A-part-of (D) is-a
- 64) Which protection level provides data encapsulation?
- (A) Private (B) Protected
(C) Public (D) Package
- 65) Which symbol is used to show inheritance between two classes?
- (A) Empty diamond
(B) Filled diamond
(C) The arrow points from superclass to subclass
(D) The arrow points from subclass to superclass

- 66) Which is the proper statement to invoke display () method of superclass?
- (A) display () (B) display.super ()
(C) super.display () (D) show.display ()
- 67) When we write class in Java, it is made up of which two components?
- (A) procedure and behaviour
(B) attributes and behaviour
(C) variable and values
(D) main () method and constructor
- 68) Which kind of variable is a variable representing a collection of homogeneous type of elements?
- (A) Local (B) Instance
(C) Global (D) Array
- 69) Which of the following options is not proper for array declaration with initial values?
- (A) int marks [3] = new marks {90, 70, 77};
(B) int marks [] = {90, 70, 77};
(C) int [] marks = {90, 70, 77};
(D) int marks [] = {90, 80, 70, 60};
- 70) How many integer values will be stored in the following array?
- int marks [] [] = new int [4][4];
- (A) 8 (B) 64
(C) 16 (D) 4
- 71) Which of the following constructors creates an object that refers to the literal specified in argument?
- (A) string (string literal) (B) string (char literal)
(C) string (string strobj) (D) string (char ary [])

- 72) Which of the following methods returns true if invoking string is same as str?
- (A) boolean compare to (string str)
 - (B) boolean equals (string str)
 - (C) int compare to (str string)
 - (D) int equals (string str)
- 73) Which of the following methods returns a string after appending str with the invoking string?
- (A) string to Lower case ()
 - (B) string to Upper case ()
 - (C) string concat (string str)
 - (D) int length ()
- 74) Which command is used to assign value 5 to all elements of list array?
- (A) sort (list, 5)
 - (B) sort (list, 1, 7, 5)
 - (C) fill (list, 2, 6, 5)
 - (D) fill (list, 5)
- 75) Which method of date class sets new date and time of an object using elapsed time?
- (A) void setTime (long elapsedTime)
 - (B) long getTime ()
 - (C) Date (long elapsedTime)
 - (D) Date ()
- 76) If calendar is an object of calendar class, then which of the following commands will set the date to 20?
- (A) calendar.get (calendar.DATE, 20)
 - (B) calendar.set (calendar.DATE, 20)
 - (C) get.calendar (calendar.DATE, 20)
 - (D) set.calendar (calendar.DATE, 20)
- 77) What is the value of December month in the MONTH constant of calendar class?
- (A) 12
 - (B) 1
 - (C) 11
 - (D) 0

- 78) Syntax error in the program is considered as which kind of error?
- (A) Compilation error (B) Runtime error
(C) Variable error (D) Printing error
- 79) Which kind of exception will be generated, when an attempt to convert string to a number type is done?
- (A) ArithmeticException
(B) NullPointerException
(C) PrinterIOException
(D) NumberFormatException
- 80) Which of the following blocks is known as exception handler?
- (A) try block (B) main () method
(C) catch block (D) throw block
- 81) What will happen when a try block does not generate an Exception and you have included multiple catch blocks?
- (A) They all execute
(B) Only the first matching one executes
(C) No catch block executes
(D) Only the first catch block executes
- 82) Which of the following blocks contains the code that may give rise to one or more exceptions?
- (A) throw (B) throws
(C) finally (D) try
- 83) In the field of Computer Science, which of the following lines indicates that the compilation of program is not successful?
- (A) Exit Code : 1 (B) Exit Code : 0
(C) Exit Code : -1 (D) Exit : 1

- 84) Which kind of files can be data files that contain facts such as pay-roll file, program files or application files?
- (A) Binary files (B) Text files
(C) Image files (D) All (A), (B), (C)
- 85) Which of the following is not a proper constructor of file class?
- (A) File (string path)
(B) File (directory_path)
(C) File (string directory_path, string file_name)
(D) File (file directory, string file_name)
- 86) Which kind of files are used to store variables like integer, double or boolean into a file and also to store arrays and objects?
- (A) Text file (B) KompoZer file
(C) Image file (D) Binary file
- 87) Which kind of exception will be thrown by writer class?
- (A) FileNotFoundException
(B) ArithmeticException
(C) IOException
(D) NullPointerException
- 88) Which of the following methods is used to write a formatted string to the console's output stream using the specified format string and arguments?
- (A) Console printf (string format, object args)
(B) Char read Password ()
(C) Char read Console ()
(D) String (Object args)
- 89) Which method of scanner class returns the next token?
- (A) int next Int () (B) String has Next ()
(C) String next () (D) boolean has Next ()

90) Find correct option from the following :

- | A | B |
|--|---------------------------|
| (i) Line break command in LaTeX | (p) \ (backslash) |
| (ii) Comment character in LaTeX | (q) [] (square brackets) |
| (iii) Starting character of LaTeX command | (r) \ |
| (iv) Brackets used for optional arguments in LaTeX | (s) % |
- (A) (i) → (s), (ii) → (q), (iii) → (p), (iv) → (r)
(B) (i) → (r), (ii) → (s), (iii) → (p), (iv) → (q)
(C) (i) → (p), (ii) → (r), (iii) → (q), (iv) → (s)
(D) (i) → (q), (ii) → (p), (iii) → (r), (iv) → (s)

91) Which package of LaTeX has special features for including programming code within the document?

- (A) easylist (B) amsmath
(C) geometry (D) listings

92) After which command of LaTeX, all chapters are treated as appendices and it is to be used only once?

- (A) \setcounter (B) \tableofcontents
(C) \mainmatter (D) \appendix

93) Which of the following LaTeX commands is used to insert mathematical symbol '⊆' in the document?

- (A) \subset (B) \in
(C) \notin (D) \neq

94) What is the full form of CTAN?

- (A) Comprehensive Tex Architech Network
(B) The Comprehensive Tex Archive Network
(C) The Computerized Tex Archive Network
(D) The Comprehensive Tex Archive Numerology

- 95) Which of the following document class is used for writing letters?
- (A) letter (B) article
(C) book (D) beamer
- 96) What will be the output, if following command sequence is given in R software?
- ```
> a ← 10
> b ← 30
> a * b
```
- (A) Error (B) 10  
(C) 300 (D) 40
- 97) Which menu is used to start VLC Media Player?
- (A) Media → Open File ...  
(B) Media → Open Directory ...  
(C) Media → Playlist  
(D) Applications → Sound & Video
- 98) In Archive Manager, which option is used to create new archive?
- (A) Archive (B) Compress  
(C) Extract (D) Back
- 99) Which desktop product of Rational Plan allows links between tasks pertaining to different projects, analyzes all our projects data and creates a project portfolio view?
- (A) Rational Plan Single (B) Rational Plan Viewer  
(C) Rational Plan Multi (D) Skype
- 100) In Skype, which button should be clicked after giving Skype name and password in the text box?
- (A) Sign in (B) Log in  
(C) New User (D) Enter Skype

