

This Question Paper contains 20 printed pages.

Sl.No.

331 (E)
(MARCH, 2024)
(SCIENCE STREAM)
(CLASS - XII)

પ્રશ્ન પેપરનો સેટ નંબર જેની
સામેનું વર્તુળ OMR શીટમાં
ઘટ્ટે કરવાનું રહે છે.
Set No. of Question Paper,
circle against which is to be
darken in OMR sheet.

06

Time : 2 Hours]

[Maximum Marks : 100

Instructions:

- 1) There are 100 questions in this question paper. All questions are compulsory.
- 2) Select proper option to make statement correct.
- 3) The OMR sheet is given for answering the questions. The answer of each question is represented by (A) O, (B) O, (C) O, (D) O. Darken the circle ● of the correct answer with ball-pen.
- 4) Each question carries 1 mark.
- 5) Rough work is to be done on the space provided for this purpose in the Test Booklet only.
- 6) Read the questions carefully before your answer.
- 7) Set No. of Question Paper printed on the upper-most right side of the Question Paper is to be written in the column provided in the OMR sheet.

- 1) Which of the following is an example of binary file extension?
(A) .txt (B) .java
(C) .class (D) .c
- 2) In Java, which of the following method of file class returns true if the file or directory exists, otherwise returns false?
(A) boolean isfind() (B) boolean exists()
(C) boolean file() (D) boolean directory()

(Space for Rough Work)

- 3) Which of the following is not a method of `FileInputStream` class in Java?
- (A) `void close()` (B) `void write(int b)`
(C) `int read()` (D) `int read(byte[] b)`
- 4) In Java, which of the following class belongs to `Java.util` package?
- (A) `file` (B) `console`
(C) `scanner` (D) `stream`
- 5) In Java, which of the following class provides a method for reading password?
- (A) `file` (B) `console`
(C) `scanner` (D) `string`
- 6) The data hierarchy occurs in which of the following order from the smallest to largest piece of data?
- (A) `file:character:field:record` (B) `file:character:record:field`
(C) `character:field:file:record` (D) `character:field:record:file`
- 7) In LaTeX, which of the following brackets are used for mandatory arguments?
- (A) `()` (round brackets) (B) `{ }` (curly brackets)
(C) `<>` (angular brackets) (D) `[]` (square brackets)
- 8) In LaTeX, which of the following package has special features for including programming code within the document?
- (A) `easylist` (B) `amsmath`
(C) `listings` (D) `geometry`

(Space for Rough Work)

- 9) In SciTE, which shortcut key is used to compile a LATEX file?
(A) F5 (B) F6
(C) F7 (D) F9
- 10) In LaTeX, which of the following command is used to insert a break in line?
(A) \\ (B) \$
(C) % (D) /*
- 11) Which of the following website hosts the LaTeX packages?
(A) CTAN (B) CLAN
(C) CTEN (D) CLEN
- 12) Which of the following is not a reserved character in LaTeX?
(A) @ (B) %
(C) \$ (D) ^
- 13) In VLC media player, which of the following bar shows how much of the current track has been played and what is its total duration?
(A) Status bar (B) Toolbar
(C) Menu bar (D) Progress bar
- 14) Which of the following is a default view of Google maps?
(A) map view (B) satellite view
(C) sea view (D) land view
- 15) In 'R' software which of the following function is used to display list of all defined variables?
(A) ls() (B) list()
(C) disp() (D) list var()

(Space for Rough Work)

- 16) Which of the following RationalPlan shares project in its original file format (.xrp)?
- (A) RationalPlan single
 - (B) RationalPlan multi
 - (C) RationalPlan viewer
 - (D) RationalPlan single and multi batch
- 17) Which of the following service allows users to communicate with peers using voice, video as well as text?
- (A) Yahoo Messenger
 - (B) Google Talk
 - (C) Rediff Bol
 - (D) Skype
- 18) In HTML, which of the following attribute of the <Input> element specifies the field that is to be created in the form?
- (A) Input
 - (B) Type
 - (C) Name
 - (D) Value
- 19) Which of the following is not an example of open source IDE?
- (A) Visual Basic
 - (B) KompoZer
 - (C) Eclipse
 - (D) NetBeans
- 20) In HTML, what is the default value of method attribute of <Form> tag?
- (A) get
 - (B) post
 - (C) action
 - (D) value

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- 21) Which of the following viewing mode is not available on the edit mode toolbar of KompoZer?
- (A) Normal (B) HTML tag
(C) Preview (D) Split
- 22) In KompoZer, which menu-option is used to insert a label in the form?
- (A) Insert → Form → Text (B) Insert → Form → Label
(C) Insert → Form → Define Label (D) Insert → Label
- 23) Where will the page title be displayed, when webpage is viewed in the browser window?
- (A) Status bar (B) Title bar
(C) Menu bar (D) Toolbar
- 24) In KompoZer, which button of the "selection list properties" dialog box is used to add list items in the selection list?
- (A) Add items (B) Add group
(C) Add options (D) Edit items
- 25) In KompoZer, which menu is used to give a background color to the webpage?
- (A) Insert (B) Edit
(C) Format (D) Form
- 26) In KompoZer, CSS button is available on which toolbar?
- (A) Composition toolbar (B) Format toolbar 1
(C) Format toolbar 2 (D) Edit mode toolbar

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- 27) Which of the following tab is not available in the CSS stylesheets dialog box?
- (A) General (B) Text
(C) Bullets (D) Background
- 28) In the following JavaScript statement what is "write"?
- ```
document.write("Hello");
```
- (A) object (B) method  
(C) message (D) variable
- 29) Which of the following is an example of inbuilt function?
- (A) v form() (B) validate form()  
(C) alert() (D) myFun()
- 30) In JavaScript, which event would occurs when document or image is loaded?
- (A) select (B) focus  
(C) abort (D) upload
- 31) Which of the following statement is not true for the variable in JavaScript?
- (A) A variable is a container for storing data  
(B) Variable in JavaScript are not case sensitive  
(C) The variable can store numbers, string or text  
(D) Variable can be declared using keyword var
- 32) In Browser object model elements of the webpage like forms, images, links are contained within which object?
- (A) history (B) document  
(C) location (D) frame

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- 33) In JavaScript, which of the following is used for logical OR?  
(A) || (B) &&  
(C) \*\* (D) !=
- 34) Which of the following is known as special symbol in the syntax of CSS?  
(A) Rules (B) Selector  
(C) Declaration (D) Input
- 35) Which of the following symbol signifies the start and end of a JavaScript block?  
(A) Semicolon (;) (B) Square bracket ([])  
(C) Curly bracket ({} ) (D) Round bracket (())
- 36) The website content should be classified into how many categories?  
(A) 2 (B) 3  
(C) 4 (D) 6
- 37) In KompoZer, which option of table tab of "table properties" dialog box is used to give caption to the table?  
(A) Border (B) Heading  
(C) Title (D) Caption
- 38) In KompoZer, which tab of "Image properties" dialog box is used to change a size of an image?  
(A) x & y of image (B) size  
(C) dimensions (D) resize

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(Space for Rough Work)

- 39) Which of the following protocol is used to transfer the webpages from users computer to the web host?
- (A) SMT (B) HTP  
(C) FTP (D) HT
- 40) Which of the following offers space on the web server?
- (A) ISP (B) IPS  
(C) SP (D) FSP
- 41) Which of the following open source IDE is used to develop web applications using HTML, CSS and JavaScript?
- (A) Aptana Studio (B) BlueGriffon  
(C) Amaya (D) MS Publisher
- 42) Which of the following is the free open source WYSIWYG web editor developed by the World Wide Web Consortium?
- (A) KompoZer (B) Aptana Studio  
(C) BlueGriffon (D) Amaya
- 43) Which of the following is the first page that opens when the user enters the URL address in the address bar of the browser?
- (A) Homepage (B) First page  
(C) Webpage (D) Main page

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**(Space for Rough Work)**



- 44) Which of the following is the first E-commerce application of online book store on Internet?  
(A) www.amazon.com (B) www.mybookstore.com  
(C) www.buybooksindia.com (D) www.bookshopofindia.com
- 45) In which of the following services, after selling the products, companies are providing online support to the customers?  
(A) Online billing (B) Information services  
(C) Support services (D) Net Banking
- 46) Which of the following service can not be availed by customer with the help of online banking?  
(A) Obtain statements for any credit or debit  
(B) Find status of transaction  
(C) Transfer the money from one account to other  
(D) Cash withdraw
- 47) Which of the following website is not an example of consumer to consumer (C2C) E-commerce business model?  
(A) TradeIndia.com (B) eBay.com  
(C) OLX.com (D) Quikr.com
- 48) JeetLe.in and bidstall.com websites are examples of which of the following E-commerce business model?  
(A) Business to Business (B2B) (B) Consumer to Consumer (C2C)  
(C) Consumer to Business (C2B) (D) Business to Consumer (B2C)

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**(Space for Rough Work)**

- 49) Which of the following is the process of buying and selling products by offering the customers to bid the price?
- (A) Marketing (B) Auction  
(C) Bookshop (D) Booking
- 50) Which of the following E-commerce business model is also a part of E-governance?
- (A) Business to Business (B2B) (B) Consumer to Business (C2B)  
(C) Consumer to Consumer (C2C) (D) Government to Citizen (G2C)
- 51) Which of the following is a limitation of M-commerce?
- (A) Streamline Business processes (B) It offers a limited bandwidth  
(C) Conduct business 24 × 7 (D) Provides global reach
- 52) Which of the following is not used as source of signals in the L-commerce technology?
- (A) GPS (B) Cellular  
(C) Wifi-sources (D) Cable connection
- 53) Which of the following is an art of protecting the information by transforming it into an unreadable form?
- (A) Firewall (B) Copyright  
(C) Digital Certificate (D) Cryptography
- 54) Which of the following security system is used by credit card companies to make online transactions secure?
- (A) Set Electrical Transaction (B) Secure Electronic Transfer  
(C) Safe Electronic Transaction (D) Successful Electronic Transfer

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- 55) Which of the following new card payment mechanism launched by National Payment Corporation of India?
- (A) Credit Card (B) Debit Card  
(C) E-wallet (D) RuPay
- 56) Which of the following refers to an unsolicited e-mails that may be of commercial or non-commercial nature?
- (A) Bullying (B) Spam  
(C) Phishing (D) Grooming
- 57) Which of the following programming language supports object-oriented programming?
- (A) C (B) Cobol  
(C) Java (D) Pascal
- 58) Which of the following statement is true for the object oriented programming concept?
- i) The focus is on writing functions or procedures which operates on data  
ii) It uses object as its fundamental building block  
iii) Similar objects are classified using concept of class
- (A) (i) and (ii) (B) (i) and (iii)  
(C) (ii) and (iii) (D) (i), (ii) and (iii)
- 59) Unified Modelling Language (UML) is defined and maintained by which of the following?
- (A) Object Management Group (B) Object Oriented Group  
(C) Object Set Management (D) Management Group of OOPs

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- 60) In class diagram, which of the following is not included into the rectangle icon used to represent a class?
- (A) name (B) attribute  
(C) behaviour (D) return type
- 61) In the class diagram, which of the following symbol is used for protected visibility?
- (A) - (B) #  
(C) + (D) ~
- 62) In object oriented programming which of the following provides data hiding capability?
- (A) encapsulation (B) data abstraction  
(C) messaging (D) polymorphism
- 63) Composition represents which type of relationship between classes?
- (A) a-kind-of (B) is-a  
(C) a-part-of (D) is-like
- 64) In class diagram, aggregation is represented using which of the following symbols?
- (A) Empty diamond symbol (B) Filled diamond symbol  
(C) Filled triangle symbol (D) Empty circle symbol
- 65) In Java, which of the following data types hold integers only?
- (A) byte, short, float, double (B) byte, int, short, double  
(C) int, long, short, double (D) byte, short, int, long

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**(Space for Rough Work)**

- 66) Which of the following is not right for the variable name in Java?  
(A) It must begin with an alphabets, underscore (\_) or dollar sign (\$)   
(B) No spaces are allowed   
(C) It can not be reserved word   
(D) Some legal names : 4x, % amt
- 67) In Java, which of the following Escape code is used for New line?  
(A) \n (B) \t   
(C) \b (D) \r
- 68) Which of the following is not used for comment in Java?  
(A) // (B) /\* \*/   
(C) /\*\* \*/ (D) \ \ \*
- 69) Which of the following is not a comparison operator of Java?  
(A) == (B) <=   
(C) <> (D) !=
- 70) In Java, which of the following logical operator is used for XOR (Exclusive OR)?  
(A) && (B) ||   
(C) ^ (D) !
- 71) In the shorthand assignment operator of Java, a += b is same as which of the following?  
(A) a = b ++ (B) a ++   
(C) b ++ (D) a = a + b
- 72) Which of the following is a exit-controlled or post-test loop construct of Java?  
(A) for (B) while   
(C) do--while (D) for and while

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(Space for Rough Work)

- 73) In Java, which of the following statement is used to skip the following statements in a loop and continue with the next iteration?
- (A) break (B) continue  
(C) goto <line no> (D) go <line no>
- 74) In Java, what will be the result of arithmetic expression  $-7\%2$ ?
- (A) -3 (B) -1  
(C) 1 (D) -3.5
- 75) Which of the following is a template for multiple objects with similar features?
- (A) message (B) functions  
(C) class (D) variables
- 76) Which of the following is not a step of object creation from the class in Java?
- (A) Declaration (B) Instantiation  
(C) Initialization (D) Execution
- 77) In Java, instance variables and instance methods are accessed via objects can be referred by which of the following operator?
- (A) . (dot) (B) , (comma)  
(C) : (colon) (D) \$ (dollar)
- 78) In Java, which of the following variables are defined inside methods or blocks?
- (A) local variable (B) instance variable  
(C) class variable (D) program variable
- 79) Which of the following is not true for the constructors in Java?
- (A) constructor must have the same name as class name  
(B) constructor does not have return type  
(C) constructor can be invoked explicitly elsewhere in the program  
(D) constructor is invoked implicitly only when an object is constructed using new operator

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**(Space for Rough Work)**

- 80) In Java, which of the following access modifier is used to get highest level of protection in program?  
(A) Package (B) Public  
(C) Private (D) Protected
- 81) In Java, if we want to allow other methods to read only the data value than which of the following method is used?  
(A) getter (B) setter  
(C) mutator (D) setter and mutator
- 82) In Java, which of the following allows to build a new class with added capabilities by extending existing class?  
(A) constructor (B) encapsulation  
(C) data abstraction (D) inheritance
- 83) In Java, which keyword is used to create a subclass by extending superclass?  
(A) super (B) extends  
(C) add (D) friend
- 84) Which of the following keyword is used to declare class variables and class methods?  
(A) static (B) private  
(C) public (D) package
- 85) In Java, which of the following is used to represent vector, matrix and other multi-dimensional data?  
(A) object (B) class  
(C) array (D) function
- 86) Which of the following is not a right command to declare an array in Java?  
(A) `int marks [] = new int [3];` (B) `int [] marks = new int [3];`  
(C) `int marks [] = {10, 20, 30};` (D) `int [3] marks = {10, 20, 30};`

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**(Space for Rough Work)**

- 87) In Java, which method of `java.util.Arrays` class is used to fill the whole or partial array with specified value?
- (A) `sort` (B) `add`  
(C) `fill` (D) `replace`
- 88) In Java, an array declared using `int marks [][] = new int [3][3];` will occupy how many bytes space in the memory?
- (A) 9 (B) 18  
(C) 36 (D) 72
- 89) Which of the following is not right for an array in Java?
- (A) array is a collection of homogeneous type of data  
(B) array is treated as an object  
(C) array elements can be accessed using index for each dimension in []  
(D) Index value starts with 1
- 90) Java supports how many types of strings?
- (A) 2 (B) 3  
(C) 4 (D) 6
- 91) In Java, `int compareTo(string str)` method returns which of the following if invoking string is equal to 'str'?
- (A) 0 (B) < 0  
(C) > 0 (D) 1
- 92) In Java, which method of `String` class returns a string after appending str with the invoking string?
- (A) `String to append(string str)` (B) `String Add(string str)`  
(C) `String concat(string str)` (D) `String Indexat(string str)`

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**(Space for Rough Work)**



93) In Java, which constant of Calendar class is used for the 'day of Calendar month'?

- (A) DATE 'OR' DAY\_OF\_MONTH (B) DATE\_OF\_YEAR  
(C) DAY\_OF\_YEAR (D) MONTH

94) In Java, if str is an object of String class and its content is "I LOVE INDIA", then what is the value of str.length()?

- (A) 10 (B) 12  
(C) 24 (D) 20

95) Which of the following keyword is not used to write an exception handler?

- (A) try (B) error  
(C) catch (D) finally

96) In exception handling of Java, which of the following block may give rise to one or more exception?

- (A) try (B) catch  
(C) finally (D) throws

97) In exception handling of Java, which of the following block is always executed before the program ends?

- (A) try (B) catch .  
(C) finally (D) throwable

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(Space for Rough Work)

- 98) Which of the following is not true for the catch block of exception handling in Java?
- (A) Catch block must immediately follow the try block
  - (B) Catch block contains the code that is to be executed to handle an exception
  - (C) Catch block consists of keyword catch
  - (D) For a single try block there is only one catch block
- 99) In the exception handling of Java, which keyword is used to explicitly throw an exception object?
- (A) throw
  - (B) finally
  - (C) excp
  - (D) eobj
- 100) Which of the following refers to an error condition in object-oriented programming terminology?
- (A) anomaly
  - (B) abbreviation
  - (C) exception
  - (D) deviation

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(Space for Rough Work)