

This Question Paper contains 20 printed pages.

Sl.No. 1700183

331 (E)

(MARCH/APRIL 2022)
(SCIENCE STREAM)
(CLASS - XII)

પ્રશ્ન પેપરનો સેટ નંબર જેણી
સામેનું વર્તુળ OMR રીટમાં
ઘણું કરવાનું રહે છે.

**Set No. of Question Paper,
circle against which is to be
darken in OMR sheet.**

17

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.

(Space for Rough Work)

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- 3) In Java, which of the following statements enable to control the flow of execution?
- (A) Block of statements
 - (B) Control structures
 - (C) Operators
 - (D) Associativity of operators
- 4) In Java, which logical operator results in complemented result?
- (A) XOR
 - (B) OR
 - (C) AND
 - (D) NOT
- 5) In Java, what will be the value of y , where $y = 7 + ++x$ and $x = 3$?
- (A) 11
 - (B) 4
 - (C) 10
 - (D) 3
- 6) In Java, which kind of comment begin with `/*` and ends with `*/`?
- (A) Documentation comment
 - (B) Multi-line comment
 - (C) Single-line comment
 - (D) Object-oriented comment
- 7) In Java, which of the following is a proper example of unicode literal?
- (A) \0457
 - (B) \0b123
 - (C) \0xABc
 - (D) \u00E9
- 8) In Java, which of the following can take different data values at different times during the execution of programs?
- (A) Data types
 - (B) Operator
 - (C) Variable
 - (D) Control structures
- 9) In Java, which of the following data type has range of values from – 32768 to 32767?
- (A) int
 - (B) short
 - (C) byte
 - (D) boolean

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- 16) In Java, what is the name of the special portion of memory where the objects live?
- (A) Sub class
 - (B) Super class
 - (C) Garbage collector
 - (D) Heap
- 17) In Java, in which kind of protection the methods and variables are directly accessible only by the methods defined within a class?
- (A) Protected
 - (B) Package
 - (C) Public
 - (D) Private
- 18) In Java, which method is written when we want to allow private data to be modified by others?
- (A) Inherited
 - (B) Mutator
 - (C) Accessor
 - (D) Aggregated
- 19) In Java, which kind of relationship is shared between two classes in Inheritance?
- (A) a-part-of
 - (B) has-a
 - (C) is-a
 - (D) not-a
- 20) In Java, which keyword is used to define class variables and class methods?
- (A) static
 - (B) extends
 - (C) new
 - (D) auto
- 21) In Java, in which step of object creation, keyword new is used to create the object by allocating memory?
- (A) Verification
 - (B) Declaration
 - (C) Initialization
 - (D) Instantiation

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- 22) In Java, which of the following is a correct syntax to declare array?
- (A) <data type> <class name> [];
 - (B) <array name> <data type> [];
 - (C) <data type> <array name> [];
 - (D) <data type> <object name>[];
- 23) In Java, which arguments are required when we want to sort partial array from element at index start to element at index (last-1)?
- (A) array, start, last
 - (B) array, last, value
 - (C) array, start, last, value
 - (D) start, last, value
- 24) In Java, how many bytes of contiguous memory locations will be occupied by following array?
- ```
int marks [] [] = new int [4] [3];
```
- (A) 7 bytes
  - (B) 60 bytes
  - (C) 12 bytes
  - (D) 48 bytes
- 25) In Java, which classes are used to handle two types of strings?
- (A) StringArray and StringBuffer
  - (B) java.string and java.util
  - (C) String and StringBuffer
  - (D) java.io and java.string
- 26) In Java, which method of Date class returns number of milliseconds since January 1, 1970 GMT?
- (A) String toString ()
  - (B) Date ()
  - (C) long getTime ()
  - (D) Date (long elapsed Time)
- 27) Which method of string class in Java returns an array of characters as bytes from invoking string?
- (A) int length ()
  - (B) byte [] getBytes ()
  - (C) string concat (string str)
  - (D) char indexAt (int index)

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- 28) In Java, which Array class method is used to search an element in an array?  
 (A) binarySearch () (B) SearchString ()  
 (C) Search () (D) LinearSearch ()
- 29) In Java, which of the following method will assign value 5 to all elements of list array?  
 (A) fill (5, list) (B) fill (list, 1, 6, 5)  
 (C) fill (list, 2, 6, 5) (D) fill (list, 5)
- 30) In Java, which method of string class returns 0, >0, <0 integer if invoking string is equal to, greater than or less than str respectively?  
 (A) string toLowerCase () (B) boolean equals (string str)  
 (C) int compareTo (string str) (D) string toUpperCase ()
- 31) In Java, which of the following constructor creates a string object that refers to the literal specified in argument?  
 (A) string (string literal) (B) string (string strobj)  
 (C) string () (D) string (char ary [])
- 32) In Java, which of the following can be used in a method declaration or constructor declaration to inform that the code within the constructor or method may throw an exception?  
 (A) throw statement (B) finally  
 (C) catch (D) throws clause
- 33) In Java, which block is generally used to clean up at the end of executing a try block?  
 (A) finally (B) multiple catch  
 (C) catch (D) throws

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- 34) In Java, which of the following is an object - oriented technique for managing errors?
- (A) Strings
  - (B) Exception handling
  - (C) Array
  - (D) Operators
- 35) In Java, which kind of exception will occur when someone attempts to divide any number by 0?
- (A) NumberFormatException
  - (B) FileNotFoundException
  - (C) ArrayIndexOutOfBoundsException
  - (D) ArithmeticException
- 36) In how many categories Java errors can be broadly classified?
- (A) Two
  - (B) Three
  - (C) Four
  - (D) One
- 37) In Java, which of the following is the correct syntax of the try block?
- (A) try (Exception\_ Type Exception \_ Object)
 

```
{
 // code to handle the exception
 }
```
  - (B) try
 

```
{
 // code to handle the exception
 }
```
  - (C) try
 

```
{
 // set of statements that may generate exception
 }
```
  - (D) try
 

```
{
 // clean-up code to be executed last
 }
```

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- 45) Which command of LaTeX can produce the popular PDF format files?
- (A) `latexpdf`
  - (B) `evince pdffilename`
  - (C) `pdflatex`
  - (D) `\pdflatex`
- 46) Which package of LaTeX has special features for including programming code within the document?
- (A) `listings`
  - (B) `easylist`
  - (C) `geometry`
  - (D) `setspace`
- 47) In LaTeX, which of the following are numbered in Roman numerals?
- (A) subsections
  - (B) sections
  - (C) chapters
  - (D) parts
- 48) In LaTeX, which symbol is subscript operator?
- (A) `$` (dollar)
  - (B) `^` (caret)
  - (C) `_` (underscore)
  - (D) `\sim` (tilde)
- 49) Which of the following begins with `\begin {name}` and ends with `\end {name}`?
- (A) environment
  - (B) section
  - (C) group
  - (D) preamble
- 50) Which of the following symbol is the comment marker in R software?
- (A) `/*...*/`
  - (B) `%`
  - (C) `#`
  - (D) `//`
- 51) In VLC media player, which menu option is used to open playlist?
- (A) `View → Playlist`
  - (B) `Open → Media → Playlist`
  - (C) `Open → Playlist`
  - (D) `Media → Playlist`

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- 58) Which of the following is a software application, which provides complete facilities to programmer to develop software?
- (A) HTML
  - (B) CSS
  - (C) IDE
  - (D) JavaScript
- 59) Which HTTP method retrieves the data from the form and sends it to the server by attaching it at the end of the URL?
- (A) Submit
  - (B) GET
  - (C) POST
  - (D) Reset
- 60) In KompoZer, which view helps those who are familiar with HTML and shows yellow marker to indicate the start tag for all elements?
- (A) HTML Tags view
  - (B) Normal view
  - (C) Preview
  - (D) Outline view
- 61) Which menu option of KompoZer is used to give a background color to the form?
- (A) Format → Page Background color
  - (B) File → Page Background
  - (C) Format → Page colors and Background
  - (D) Edit → Change Background color
- 62) In KompoZer, which dialog box will be opened when we click on File → Save?
- (A) File Save As
  - (B) Save As
  - (C) Page Save As
  - (D) Page Title

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- 63) In Browser Object Model (BOM), which object is used to represent the web page displayed in the browser?
- (A) Location
  - (B) Parent
  - (C) Window
  - (D) Document
- 64) What will be the output of the function ‘`isNaN(20223)`’?
- (A) False
  - (B) Error
  - (C) True
  - (D) No output
- 65) In which tab of CSS stylesheet dialog box, the various options like Font family, Font size, Line height, color etc. are available?
- (A) Lists
  - (B) General
  - (C) Text
  - (D) Background
- 66) In CSS syntax, which part consists of a property associated with the HTML element used in selector and its corresponding value?
- (A) Font type
  - (B) Declaration
  - (C) Selector
  - (D) Font color
- 67) Which of the following is useful in creating interactive web pages which responds to the action performed by the user?
- (A) HTML
  - (B) JavaScript
  - (C) CSS
  - (D) Variable
- 68) In JavaScript, which event would occur when element such as a radio button becomes inactive?
- (A) Focus
  - (B) Change
  - (C) Abort
  - (D) Blur

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- 69) Which of the following is a reusable block of code that performs a particular task?
- (A) Function
  - (B) Event handler
  - (C) Event
  - (D) If condition
- 70) In JavaScript, which symbol is used as a mark of separation rather than termination?
- (A) ,(Comma)
  - (B) :(Colon)
  - (C) ;(Semicolon)
  - (D) -(Hyphen)
- 71) In CSS stylesheet dialog box, which options are available in 'Borders' tab?
- (A) General, Text, Background
  - (B) Font family, Font size, Color
  - (C) Color, Opacity, Image
  - (D) Style, Width, Color
- 72) In JavaScript, which is the conditional statement which is used to change the flow of the program?
- (A) If statement
  - (B) focus ()
  - (C) alert ()
  - (D) return
- 73) In KompoZer, in Image Properties dialog box which of the following tab is not available?
- (A) Dimensions
  - (B) Cells
  - (C) Location
  - (D) Link
- 74) Which kind of website content provides users with the detailed information on the site like product and services description?
- (A) Detailed
  - (B) Specific
  - (C) Short
  - (D) General

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- 80) In KompoZer, which of the following menu option is used to create link?
- (A) Link → Insert
  - (B) Edit → Insert link
  - (C) Format → Insert → Link
  - (D) Insert → Link
- 81) Which kind of E-commerce services have become increasingly important due to the huge technological changes taken place in the last decade?
- (A) Online billing
  - (B) Support services
  - (C) Information services
  - (D) Marketing and selling
- 82) Which of the following can create a whole world of global village from where anyone can buy anything, any time and from anywhere?
- (A) Traditional commerce
  - (B) E-Newspaper
  - (C) E-Commerce
  - (D) L-Commerce
- 83) Which is the process of buying and selling products or services by offering the customers to bid the price and selling the product to the highest bidder?
- (A) Auction
  - (B) Marketing and selling
  - (C) Support services
  - (D) E-Newspaper
- 84) In which type of E-commerce, consumers have a choice of a wide range of products and services along with the opportunity to specify the range of the prices that they are willing to pay for a particular product of service?
- (A) B2C
  - (B) C2B
  - (C) C2C
  - (D) B2B

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- 85)** Which of the following is an example of B2B business model website?
- (A) GSWAN
  - (B) Ebay.com
  - (C) JeetLe.in
  - (D) Commodity.com
- 86)** Which of the following business model has gained a high popularity amongst consumers due to simplified and fast way to buy products?
- (A) G2C
  - (B) C2B
  - (C) B2C
  - (D) C2C
- 87)** Which of the following business model provide good and effective services to individual citizen?
- (A) G2C
  - (B) G2G
  - (C) G2B
  - (D) B2C
- 88)** Which of the following is an advantage of M-Commerce?
- (A) Provides global reach
  - (B) User interface is less convenient
  - (C) It offers a limited bandwidth
  - (D) High cost of establishing infrastructure
- 89)** Which of the following source is the most accurate in determining a mobile device's position?
- (A) Cellular
  - (B) GPS
  - (C) Wi-Fi sources
  - (D) Laptop
- 90)** Which of the following security aspect of M-Commerce ensures that the information must not be accidentally or maliciously altered or tampered in transit?
- (A) Non-repudiation
  - (B) Authorization
  - (C) Integrity
  - (D) Confidentiality

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- 91) Which of the following is an electronic card for making secure online payments towards a merchant?
- (A) Digital watermarking
  - (B) Electronic Fund Transfer
  - (C) Net banking
  - (D) E-wallet
- 92) Which of the following is a form of virtual harassment?
- (A) Cyber Grooming
  - (B) Cyber bullying
  - (C) Social Engineering
  - (D) Malware
- 93) Which of the following term refers to unsolicited e-mails that may be of commercial or non-commercial nature?
- (A) Spam
  - (B) Phishing
  - (C) Malware
  - (D) Grooming
- 94) In OOP, which of the following describes a group of objects with similar attributes and common behavior?
- (A) Attributes
  - (B) Data members
  - (C) Object
  - (D) Class
- 95) What is the full form of OMG?
- (A) Omega Modelling Group
  - (B) Object Modelling Group
  - (C) Object Management Group
  - (D) Old Management Group
- 96) Which of the following property of OOP language, is a process of representing the essential features of the objects without including implementation detail?
- (A) Data Abstraction
  - (B) Messaging
  - (C) Encapsulation
  - (D) Aggregation

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- 97)** In which of the following, the class that forms part of the owner class can exist independently?
- (A) Inheritance
  - (B) Aggregation
  - (C) Composition
  - (D) Polymorphism
- 98)** In which kind of inheritance, a class can be derived using more than one parent classes?
- (A) Two-way Inheritance
  - (B) Multilevel Inheritance
  - (C) Multiple Inheritance
  - (D) Multiway Inheritance
- 99)** In object-oriented programming, which feature allows defining more than one method having same name but different signature in a single class?
- (A) Aggregation
  - (B) Function overloading
  - (C) Operator overloading
  - (D) Composition
- 100)** In which kind of programming, the focus is on writing functions or procedures which operate on data?
- (A) Procedural programming
  - (B) Pre-oriented programming
  - (C) Object-oriented programming
  - (D) Post-oriented programming




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