

Sl.No. 1600680

331 (E)
(MARCH, 2023)
(SCIENCE STREAM)
(CLASS - XII)

પ્રશ્ન પત્રના સહ નંબર જાણી
સામેનું વર્તુળ OMR શીટમાં
પટ્ટ કરવાનું રહે છે.
Set No. of Question Paper,
circle against which is to be
darken in OMR sheet.

16

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 the 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 open source WYSIWYG web editor, was initially started as an HTML/CSS editor and has now grown into an editor for many XML-based systems?
(A) BlueGriffon (B) Amaya
(C) KompoZer (D) Aptana Studio
- 2) Which of the following is a good example of C2C model?
(A) E-newspaper (B) Online purchasing
(C) Auction sites (D) Information services

(Space for Rough Work)

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- 3) Which of the following is a proper example of Consumer to Business (C2B) business model?
- (A) bidstall.com (B) quikr.com
(C) commodity.com (D) job.in
- 4) Which of the following is a limitation of E-Commerce?
- (A) Lower cost
(B) Teamwork
(C) No boundaries or geographical limitations
(D) Security
- 5) "No sharing of information with competitors", is a feature of which kind of commerce?
- (A) E-Commerce (B) M-Commerce
(C) L-Commerce (D) Traditional Commerce
- 6) Identify : "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) Marketing (B) Auction
(C) Online billing (D) Net Banking
- 7) Which of the following was one of the first applications of E-Commerce on Internet?
- (A) Internet bookshops (B) Electronic newspaper
(C) Net Banking (D) Marketing and Selling
- 8) Which of the following can be used to search any book from online book store?
- (A) Title of the book (B) Author's name
(C) Publication name (D) All (A), (B) & (C)

(Space for Rough Work)

- 9) Which are data centres, which perform the credit card transactions and settle funds to the merchant?
- (A) Issuing Bank (B) Acquiring Bank
(C) Processors (D) Payment gateways
- 10) Which of the following is a kind of payment card that transfers fund directly from the consumer's bank account to the merchant?
- (A) Credit card (B) Debit card
(C) E-Wallet (D) Net Banking
- 11) Which of the following security aspect ensures that the information must not be accidentally or maliciously altered or tampered in transit?
- (A) Integrity (B) Authorization
(C) Confidentiality (D) Non-repudiation
- 12) Which of the following is a device placed between the network and the Internet to monitor and control the traffic between the company's local network and the outside world?
- (A) Antivirus (B) Digital certificate
(C) Firewall (D) Cryptography
- 13) Which is an attack used to shut down a machine or network, making it inaccessible to its intended users?
- (A) Spoofing (B) Denial of service attack
(C) Cyber Vandalism (D) Sniffing
- 14) Which of the following location based services can be used for tracking of assets, locating friends in a geographic location, tracking stolen cars etc.?
- (A) Tracking services (B) Mapping
(C) Emergency services (D) Navigation

(Space for Rough Work)

- 15) Which of the following keeps the data safe from unintended actions and inadvertent access by outside objects?
 (A) Data Abstraction (B) Polymorphism
 (C) Aggregation (D) Encapsulation
- 16) Which is a general concept used to embody all the common features of a particular set of objects?
 (A) Class (B) Behaviour
 (C) Attributes (D) Method
- 17) Which of the following statement/s is/are true for object oriented programming language?
 (i) In it, focus is on writing functions or procedures.
 (ii) It enables the programmer to create modular, reusable and extendable code.
 (iii) It uses object as its fundamental building block.
 (A) Only (i) and (ii) (B) Only (ii) and (iii)
 (C) Only (i) and (iii) (D) (i), (ii) and (iii)
- 18) Which symbol represent package visibility in class diagram?
 (A) - (hyphen) (B) # (hash)
 (C) + (plus) (D) ~ (tield)
- 19) What is the full form of UML?
 (A) Universal Modified Language (B) Unified Modified Language
 (C) Unified Modelling Language (D) Universal Modelling Language
- 20) In Aggregation, which kind of relationship is shared between two classes?
 (A) non-exclusive (B) is-a-kind-of
 (C) exclusive (D) is-a

(Space for Rough Work)

- 21) In object-oriented programming, which of the following allows defining more than one method having same name but different signatures?
 (A) Messaging (B) Method overloading
 (C) Function overloading (D) Both (B) & (C)
- 22) In class diagram, which symbol represent inheritance?
 (A) Empty diamond (B) An arrow pointing to superclass
 (C) Filled diamond (D) An arrow pointing to subclass
- 23) Which of the following is not a valid variable in Java?
 (A) birth_date (B) \$price
 (C) 4me (D) callcost
- 24) Match the following for proper examples of integer literals.
- | Type of number | Example |
|-----------------|-------------|
| (i) Hexadecimal | (p) 0b10110 |
| (ii) Octal | (q) -17777 |
| (iii) Binary | (r) 0XFF7A |
| (iv) Decimal | (s) 045 |
- (A) (i) → (r), (ii) → (s), (iii) → (p), (iv) → (q)
 (B) (i) → (p), (ii) → (q), (iii) → (r), (iv) → (s)
 (C) (i) → (s), (ii) → (r), (iii) → (q), (iv) → (p)
 (D) (i) → (q), (ii) → (p), (iii) → (s), (iv) → (r)
- 25) What will be the value of y, where $x = 5$ and $y = 4 + x++$?
 (A) 4 (B) 9
 (C) 10 (D) 6
- 26) Which of the following expression is same as $q \&\& = p$?
 (A) $q \& p$ (B) $p \&\& q$
 (C) $q == p$ (D) $q = q \&\& p$

(Space for Rough Work)

- 27) What will be the result of arithmetic expression $-25.8 \% 7$?
- (A) 4.8 (B) -4.8
(C) 4 (D) -4
- 28) Which kind of comments are used for creating API documentation from the code?
- (A) Multi-line comments (B) Documentation comments
(C) Single-line comments (D) Classic comments
- 29) In Java, what is the range of values for 'short' data type?
- (A) -32768 to 32767 (B) -128 to 127
(C) 16 - bit unicode character (D) true, false
- 30) What will be the extension of file, when the program gets compiled without errors?
- (A) .java (B) .javac
(C) .class (D) .tex
- 31) Which loop will evaluate the test expression after executing the statements in a loop?
- (A) while (B) for
(C) do ...while (D) switch
- 32) What is used when there are many alternative actions to be taken depending upon the value of a variable or expression?
- (A) for loop (B) while loop
(C) do...while loop (D) switch statement
- 33) Which methods are used to define behaviour of an object?
- (A) Class methods (B) Instance methods
(C) Object methods (D) File methods

(Space for Rough Work)

- 34) Which part of Java looks for unused objects and reclaims the memory that those objects are using?
- (A) garbage collector (B) heap
(C) block (D) object
- 35) Which methods are global to the class itself and available to any other classes or objects?
- (A) Class methods (B) Instance methods
(C) Object methods (D) Variable methods
- 36) Which of the following variables are created when the method or block is started and destroyed when the method or block has completed?
- (A) Instance variables (B) Class variables
(C) Local variables (D) Global variables
- 37) Which of the following is a proper way to provide a user-defined no-argument constructor?
- (A) (class name) {} (); (B) <class name> {} ();
(C) {class name} () (); (D) <class name> () {};
- 38) Which visibility modifier seems extremely restrictive and provides data encapsulation?
- (A) Protected (B) Private
(C) Public (D) Package
- 39) In Java, in class definition what is used to create a subclass?
- (A) extends (B) super
(C) new (D) Dot operator

(Space for Rough Work)

- 40) Which keyword returns a reference to an object that represents an instance of the class?
(A) super (B) static
(C) new (D) extends
- 41) Which of the following can not be invoked explicitly elsewhere in the program?
(A) ~~instance methods~~ (B) new operator
(C) variables (D) constructors
- 42) Which of the following are used to access or modify attributes?
(A) class (B) methods
(C) objects (D) variables
- 43) Which of the following is the correct syntax to declare a 1-D array?
(A) {data type} [] {array name} [] (B) <data type> {} <array name> {}
(C) <data type> <array name> [] (D) [data type] <> [array name]
- 44) Which method of Arrays class is used to search an element in an array?
(A) Linear Search () (B) Search ()
(C) Array Search () (D) Binary Search ()
- 45) Which property of 1-D array is used to know size of each row?
(A) length (B) sort
(C) fill (D) search
- 46) Which of the following constructor can be used to create a string object with its initial value using any argument?
(A) String (char ary[]) (B) String (String literal)
(C) String () (D) String (String strObj)

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- 47) Which of the following method returns character at index position from the invoking string?
- (A) byte Atindex () (B) int indexAt ()
(C) char indexAt (int index) (D) boolean indexAt ()
- 48) Which methods of Date class returns number of milliseconds since January 1, 1970 GMT?
- (A) Date () (B) Date (long Time)
(C) long getTime () (D) void setTime ()
- 49) Which constant of calendar class display Hour in 24-hour notation?
- (A) HOUR (B) HOUR_IN_24
(C) HOUR_AM_PM (D) HOUR_OF_DAY
- 50) How many integer values will be stored in contiguous memory locations, when array is created using
int marks [] [] = new int[6] [2];
- (A) 24 (B) 12
(C) 8 (D) 15
- 51) Which methods are declared as static and can be referred without any object in the class?
- (A) Class methods (B) Variable methods
(C) Instance methods (D) Array methods
- 52) Which of the following method will fill all elements of list array with value '7'?
- (A) fill (list, 2, 7, 7) (B) fill (list, 7, [6-1])
(C) fill (list, 7) (D) fill (list, [6+1],7)

(Space for Rough Work)

- 53) Which of the following is an indication of a problem that occurs during a program's execution and usually signals an error?
(A) Behaviour (B) Exception
(C) Method (D) Object
- 54) Which kind of exception will occur when user type following statements in Java?
int a[] = new int[4];
a[13] = 99;
(A) ArrayIndexOutOfBoundsException
(B) ArithmeticException
(C) NullPointerException
(D) NumberFormatException
- 55) Which kind of catch block has to be placed at the end of all catch blocks?
(A) finally (B) default
(C) null (D) empty
- 56) Which of the following will be used when we want to be sure that some particular code is to be run, no matter what exceptions are thrown within the associated try block?
(A) First catch block (B) Null catch block
(C) Finally block (D) Multiple catch blocks
- 57) 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 clause (B) finally block
(C) multiple try blocks (D) throws clause

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58) Which of the following is a correct syntax of try block?

- (A) try
{
 // code to handle the exception
}
- (B) try (Exception_Type)
{
 // clean-up code to be executed last
}
- (C) try (Exception_Type Exception_Object)
{
 // code to handle compile time error
}
- (D) try
{
 // set of statements that may generate one or more exceptions
}

59) Which of the following class encapsulates information about the properties of a file or a directory?

- (A) java.io.package (B) java.io.File
(C) java.io.util (D) java.util

60) Which of the following method returns an array of abstract pathnames denoting the files in the directory?

- (A) String [] list () (B) boolean list ()
(C) File [] listFiles () (D) String getPath ()

61) Which of the following is an abstract representation of an input or output device that is used as a source or destination for data?

- (A) stream (B) class
(C) file (D) directory

(Space for Rough Work)

- 62) Which class can be used especially when the input is to be typed in hidden form?
 (A) java.util (B) java.scanner
 (C) java.io.Console (D) java.io.File
- 63) Which of the following statement is true?
 (A) Volatile storage lasts only a few seconds
 (B) Volatile storage is lost when a computer is shutdown
 (C) Computer disks are volatile storage devices
 (D) All of the above are true
- 64) Which of the following is a valid extension of Text file?
 (A) .java (B) .jpeg
 (C) .mp3 (D) .class
- 65) Which of the following are useful for applying few commands to a small amount of text such as a part of a line, few lines or a paragraph in LaTeX?
 (A) Environments (B) Packages
 (C) Documents (D) Groups
- 66) Which package is used for page layout tasks like setting paper size, orientation, margins etc.?
 (A) setspace (B) geometry
 (C) amsmath (D) easylist
- 67) Which option of document class is used to display formulas and equations flushed left (left-aligned) rather than centered in LaTeX?
 (A) landscape (B) amsmath
 (C) fleqn (D) listings

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- 68) Which fonts are typically used for computer code listings?
(A) Roman
(C) Large
(B) Sans serif
(D) Monospace
- 69) Which command is used to create fractions in LaTeX?
(A) `\frac{numerator}{denominator}`
(B) `\fraction{numerator}{denominator}`
(C) `\fraction{begin}{end}`
(D) `\frac{denominator}{numerator}`
- 70) In LaTeX, which of the following are numbered in Roman numerals (I, II, III and so on)?
(A) Chapters
(C) Sections
(B) Parts
(D) Subsections
- 71) In Skype, which button should be clicked if you have a Skype name and password?
(A) Login
(C) Sign in
(B) I Agree
(D) Confirm password
- 72) Which of the following allows to manage independent projects that do not have common resources and has no interrelations between different projects?
(A) R Software
(C) RationalPlan Multi
(B) RationalPlan Viewer
(D) RationalPlan Single
- 73) Which is the default view of Google maps?
(A) map view
(C) 3-D view
(B) satellite image view
(D) motion clip view

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- 74) In VLC media player which Menu option is used to save playlist?
(A) Tools → Save Playlist (B) Media → Save Playlist to File
(C) File → Save Playlist (D) Media → Convert/Save
- 75) Which is a very common format for distributing software or bundles of files on the Linux platform?
(A) JAR (B) Zip
(C) Tarball (D) XRP
- 76) Which of the following gives rapid access to the files on both local machines and remote servers?
(A) Status bar (B) Page Area
(C) Site Manager (D) Composition Toolbar
- 77) Which method does not have any restrictions on data length?
(A) POST (B) GET
(C) SET (D) INPUT
- 78) In Page colors and Background dialog box, which option should be selected to give background color of your choice?
(A) Reader's default colors (B) Advanced Edit
(C) Background Image (D) Use custom colors
- 79) Which Menu option is used to open the file which has been opened recently?
(A) File → Open (B) File → Recent Pages
(C) File → Open Recent Pages (D) Form → Open File

(Space for Rough Work)

- 80) Which of the following tab shows all details of the HTML code and helps in editing the source code?
- (A) Design (B) Source
(C) Split (D) HTML Tags view
- 81) Which element is used to specify the values that are to be displayed in the menu?
- (A) Option (B) Select
(C) Textarea (D) Input
- 82) Which of the following is a software application, which provide complete facilities to programmer to develop software?
- (A) HTML Form (B) Compiler
(C) IDE (D) Textarea
- 83) Which of the following element allows multi-line text input?
- (A) Form (B) Input
(C) Select (D) Textarea
- 84) Which of the following is a simple, light weight programming language, which does not contain the advanced programming functionalities of languages like C and Java?
- (A) CSS (B) Scripting language
(C) HTML (D) Both (A) & (C)

(Space for Rough Work)

- 85) Identify : "A specific JavaScript code, which will be executed in response to any event."
- (A) Event handler (B) CSS
(C) Focus method (D) Document Object Model
- 86) Which event would occur when loading of image is cancelled?
- (A) blur (B) unload
(C) abort (D) error
- 87) Which Menu option is used to make sure that KompoZer uses CSS by default?
- (A) Tools → CSS (B) Tools → CSS stylesheet
(C) Tools → Preferences (D) Tools → Default CSS
- 88) In CSS stylesheets dialog box, which button should be clicked to create a style for a particular selector?
- (A) Sheets and rules (B) Internal stylesheet
(C) New style rule (D) Create style rule
- 89) In CSS stylesheets dialog box, under which tab Text decoration, Font family etc. options are available?
- (A) Text (B) General
(C) Borders (D) Background
- 90) Which of the following tab is not available in Advanced Property Editor dialog box?
- (A) HTMLAttributes (B) Onsubmit
(C) Inline style (D) JavaScript Events

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- 91) What can be called anywhere from within the source code in JavaScript?
(A) Event (B) Function
(C) CSS stylesheet (D) HTML Form
- 92) What is used to control the web browsers window or the web page we use?
(A) Function (B) Focus method
(C) Browser Object Model (D) CSS
- 93) Which object represents the browser window or individual **frame** within the window?
(A) History (B) Location
(C) Form (D) **Window**
- 94) What should be clearly identified before **creating** a website?
(A) Purpose of the website (B) Speed of connection
(C) Content (D) Medium
- 95) Which kind of content provides an overview of the site, organization, products and services and other **items**?
(A) General (B) Detailed
(C) Long (D) Short
- 96) Identify : "A gap between the edge of the cell and text within it."
(A) Spacing (B) Alignment
(C) **Padding** (D) Size

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- 97) Which option of Image Properties dialog box is used to specify height and width of the image?
- (A) Location
(B) Link
(C) Custom size option of Dimensions tab
(D) Appearance
- 98) Which Menu option is used to change the page title of web page?
- (A) Format → Page Title
(B) Format → Page Title and Properties
(C) Edit → Page Title
(D) File → Change Page Title
- 99) Which of the following can manipulate cookies using the cookie property of the document object?
- (A) HTTP (B) CSS
(C) FTP (D) JavaScript
- 100) Which of the following open source IDE, comes along with a large number of additional plugins?
- (A) Aptana Studio (B) Amaya
(C) BlueGriffon (D) W3C

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