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STD : 12 (SCI) | SEM-4

COMPUTER STUDIES

PAPER - 1

(1) What will be output of following program ?

```
class abc
{
    Public static void main (string [] s)
    for (int i=0; i<10; i++)
    {
        system.out.println(i);
    }
}
}
```

**(A) Error**

(B) i

(C) Display 1 to 10

(D) 1, 2, 3, 4, ..... 10

(2) Java class is generally made up of which components ?

(A) behaviour, variable

**(B) attribute, behaviour**

(C) name, attribute

(D) name, variable

(3) A variable declared using class type can store what to an object ?

(A) relation

(B) root

(C) rate

**(D) reference**

(4) In object oriented programming languages, crating an object is also called as what ?

**(A) object instantiation**

(B) oriented installation

(C) installation

(D) project installation

(5) Modern word processing software operates in which of the following mode ?

**(A) WYSIWYG**

(B) WISYWYG

(C) WIGIWIS

(D) WISWYG

- (6) Which of the following character is used to mark a comment in LaTeX ?  
(A) % (B) &  
(C) \$ (D) #
- (7) Which of the following commands generate the Set Union symbol in LaTeX ?  
(A) \union (B) \cap  
(C) \cup (D) \setunion
- (8) In LaTeX, square root of a number x is denoted by following command ?  
(A) \sqrt [x] (B) \sqrt {x}  
(C) \sqrt <x> (D) \sqrt (x)
- (9) What is an indication of a problem that occurs during a program's execution, it usually signals an error ?  
(A) exact (B) extraction  
(C) exception (D) expectation
- (10) Which type of file you are not able to create when there is a syntax error in the program and we get a compilation error ?  
(A) .txt (B) .html  
(C) .java (D) .class
- (11) Which of the following is example of common syntax error ?  
(A) Missing semicolon. (B) Use of undeclared variable.  
(C) Both (A) and (B) (D) None of these
- (12) A compiler is used to convert source code into what ?  
(A) Object code (B) ASCII code  
(C) SciTE code (D) Text code
- (13) Which file class method is used to return the number of bytes in that file ?  
(A) long byte() (B) long file()  
(C) long number() (D) long length()
- (14) Which class is the base for writing a character stream ?  
(A) Impress (B) Writer  
(C) Calc (D) Draw
- (15) What occurs when there is a failed I/O operation in write class ?  
(A) IO Base (B) IO Throw  
(C) IO Class (D) IO Exception
- (16) Which abstract class defines the functionality that is available for all character input stream?  
(A) Text class (B) Void class  
(C) Reader class (D) Writer class

- (17) Which File Input Stream method is used to read a byte of data from this input stream ?  
(A) void read() (B) read void()  
(C) void close() **(D) int read()**
- (18) Java uses which keyword to write an exception handler ?  
(A) catch, finally, block (B) try, catch, except  
(C) try, except, catch **(D) try, catch, finally**
- (19) Which block contains the code that is intended to handle exception of a particular type that were created in the associated try block ?  
**(A) catch** (B) handle  
(C) try (D) block
- (20) Which of the following is syntax to throw an exception object ?  
(A) throws exception\_object; **(B) throw exception\_object;**  
(C) Exceptionthrow object; (D) throwexception object\_throw;
- (21) Which type of storage values store in variables are lost when computer is shutdown ?  
(A) Voliated storages (B) Non-violated storage  
**(C) Volatile storage** (D) Non-volatile storage
- (22) Which class provides a method for reading password ?  
(A) Write class (B) Scanner Input class  
(C) Reader class **(D) Console class**
- (23) Which scanner class method is used to scan the next token of the input as Int ?  
**(A) int next Int()** (B) int has Next()  
(C) Void int() (D) int next()
- (24) Which file class method is used to return the path to the file or directory ?  
(A) String get Name() (B) String get File()  
(C) String get Directory() **(D) String get Path()**
- (25) LaTeX command start with which character followed by the command name ?  
**(A) \ (back slash)** (B) / (front slash)  
(C) \* (D) ?
- (26) From following LaTeX command which of the part is optional argument ?  
`\document [14pt] {article}`  
(A) document [14pt] **(B) 14pt**  
(C) document (D) article
- (27) In LaTeX, to insert a break in lines user uses which command at the end of each line ?  
(A) \$@ (B) ##  
(C) \$# **(D) \\**

- (28) Which command in LaTeX is used to define the document's title ?  
(A) \title doc (B) \title  
(C) \doc title (D) \LaTeX title
- (29) Tax and LaTeX use which file extension ?  
(A) .avi (B) .mp3  
(C) .tex (D) .jpeg
- (30) Which command in LaTeX produces the popular PDF format files ?  
(A) pdf latex (B) pdf conv  
(C) pdf pop (D) pdf tex
- (31) Data stored in files is often called as what ?  
(A) Persistent data (B) Personal data  
(C) Provision data (D) Public data
- (32) Which of the following is an example of binary file ?  
(A) C (B) mp3  
(C) txt (D) java
- (33) Which class encapsulates information about the properties of a file or a directory ?  
(A) java.out.file (B) java.in.file  
(C) java.file.io (D) java.io.file
- (34) Which file class method is used to return true, if the file or directory is hidden ?  
(A) boolean isHidden() (B) boolean exists()  
(C) boolean isFile() (D) boolean isDirectory()
- (35) Java language is developed by which company ?  
(A) Sun Microsystem (B) Sun Javasystem  
(C) Sun System (D) Sun Pharma Co-operation
- (36) The machine language for the Java Virtual Machine is called what ?  
(A) Code byte (B) Type code  
(C) Java bytecode (D) Java code
- (37) While creating Java what must be the same ?  
(A) folder, name, file name (B) extension, name, file name  
(C) class name, folder name (D) class name, file name
- (38) When the program gets compiled without error, compiler created a file with which extension ?  
(A) .comp (B) .txt  
(C) .java (D) .class

- (39) Which of the following is the Java Byte code file extension ?  
(A) .byte (B) .java  
**(C) .class** (D) .obj
- (40) Which code indicates whether the command or a program executed successfully or not ?  
(A) Run code : 0 (B) Scite code : 0  
(C) Source code : 0 **(D) Exit code : 0**
- (41) Which package contains a hierarchy of class dealing with various exceptions ?  
(A) java.obj and java.cls **(B) java.lang and java.io**  
(C) java.lang and java.obj (D) exit.obj and java.class
- (42) When there is an attempt to divide any number by 0 which exception is occurred while executing the program ?  
(A) Zero Exception (B) Number Exception  
(C) Divide Exception **(D) Arithmetic Exception**
- (43) When there is an attempt to convert string to a number type which exception is occurred while executing the program ?  
**(A) Number Format Exception** (B) Format Exception  
(C) Convert Exception (D) String Exception
- (44) What is the full form of CTAN ?  
(A) Compare TeX Archive Notes **(B) Comprehensive TeX Archive Network**  
(C) Comprehensive TeX Add Network (D) Code TeX Article Network
- (45) In LaTeX, to print not equal to sign, which mathematical symbol is used ?  
**(A) \neq** (B) \nteq  
(C) \noteqto (D) \noteq
- (46) In LaTeX, which command is used to emphasis effect to text ?  
(A) \eph **(B) \emph**  
(C) \empha (D) \emh
- (47) In LaTeX, which command is used to set paper size and margins ?  
(A) \usepageout (B) \usepaper  
**(C) \usepackage** (D) \usepage
- (48) In LaTeX, who has created the packages ams math, ams symb and ams fonts ?  
**(A) American Mathematical Society** (B) Advance Mathematical Source  
(C) ASCII Mathematical Society (D) Armstrong Mathematical Source
- (49) Whenever two classes have is 'is-a' relationship, what is used ?  
(A) Instant (B) Relations  
**(C) Inheritance** (D) Invalue

- (50) Which class inherits all instance variables and methods from super class and it may have its own added variables and methods ?
- (A) Out class (B) Super class  
(C) In class (D) Sub class
- (51) Which keyword is used to call the constructor of super class in the constructor of sub class ?
- (A) super (B) void  
(C) sub (D) class
- (52) A sub class can be derived from which class ?
- (A) Over class (B) Super class  
(C) Main class (D) Own class
- (53) Java supports two types of strings that are handled by two classes, which are they ?
- (A) String, Buffer String (B) String, String Buffer  
(C) String, String Literals (D) String, Buffer
- (54) Which constructor can be used without arguments to create a string object with no character ?
- (A) String () (B) String {}  
(C) String (0,1) (D) String []
- (55) Which of the following tasks are provided by string class ?
- (A) Appending string. (B) Extracting part of string.  
(C) Splitting string into sub string. (D) All of these
- (56) Which of the following method returns number of character in invoking string ?
- (A) int count() (B) int lencount()  
(C) int length() (D) int len()
- (57) Instance variables and instance method are accessed via objects. They can be referred by using which operator ?
- (A) // (B) .(dot)  
(C) \$ (D) #
- (58) Which type of variables are defined within a class but outside any method ?
- (A) Class variable (B) Empty variable  
(C) Local variable (D) Instance variable
- (59) In Java, we can have different methods that have the same name but a different signature is also called as what ?
- (A) Method overloading (B) Variable overloading  
(C) Same overloading (D) Poly overloading

- (60) To provide an user-defined no-argument constructor, which of the following command is used ?
- (A) School (float l, float j); (B) School (int i);  
(C) School () {}; (D) School {} ();
- (61) Which of the following method is used to return a string converted to lower case ?
- (A) StringtoLowerCase() (B) StringToLOWER()  
 (C) String() (D) StringLower()
- (62) Which of the following method is used to return a string after appending str with the invoking string ?
- (A) String Append() (B) String concat (String str)  
 (C) String ConAppend() (D) String Append (string)
- (63) Which class encapsulate both date and time and represent the value using millisecond precision ?
- (A) Preci class (B) Sec class  
(C) Date class (D) Time class
- (64) Which of the following method is used to construct date object using current system time ?
- (A) Class Date1() (B) Class Date()  
 (C) date() (D) Date()
- (65) Which of the following is right way to define variable ?
- (A) \$age (B) discount rate  
 (C) 4youpeople (D) %discount
- (66) String literals is a sequence of characters enclosed in which quotes ?
- (A) triple (B) double  
 (C) single & double (D) single
- (67) Which of the two symbols are used in the conditional operator in Java ?
- (A) : and \* (B) # and ?  
(C) ? and : (D) / and ?
- (68) While using shorthand version of assignment, if it is defined as  $a + = b$ , where a is 7 and b is 8, then what will be result of a ?
- (A) 8 (B) 49  
 (C) 14 (D) 15
- (69) When two operators are having different priority, then an operator with higher precedence is operated .....
- (A) first (B) last  
 (C) second (D) in middle

- (70) 1-D array is initialized using comma separated values of data elements using which brackets?
- (A) ( ) (B) < >  
(C) [ ] (D) { }
- (71) Sort () and Fill () methods can be used in Java by ..... class.
- (A) java.util.Arrays (B) util.java.arrays  
(C) java.Array.util (D) java.arrays.utils
- (72) Which type of arrays are used to store tabular data in the form of rows and columns ?
- (A) 3-D (B) 4-D  
(C) 1-D (D) 2-D
- (73) If user wants to store 15 integer values through arrays, then which of the following is used ?
- (A) int m3 = new int [5] [3]; (B) int m2 = new [5] [3];  
(C) int m1 = new [15] [15]; (D) int m4 = m4 int [2] [3];
- (74) If 'str' is the object of string class and its content is "INDIAN FLAG", then what is the value of str.length() ?
- (A) 11 (B) 8  
(C) 10 (D) 9
- (75) Which constants is used to display year of calendar ?
- (A) CAL (B) YEAR CAL  
(C) YEAR (D) MONTH
- (76) Which constant is used to display Hour in 12-hour notation ?
- (A) 12 HOUR (B) HOUR 12  
(C) Hour\_OF\_DAY (D) HOUR
- (77) Which constant is used to display Day number in the year ?
- (A) DAY\_OF\_YEAR (B) YEAR\_DAY  
(C) YEAR (D) DAY\_YEAR
- (78) In Java errors can be broadly classified into two categories namely ..... and Run-time errors.
- (A) Compile time error (B) Compile syntax error  
(C) Syntax type error (D) Syntax time error
- (79) Vector is used to represent ..... dimensional data structure.
- (A) Three (B) Four  
(C) One (D) Two



- (80) What is useful to represent vector, matrix and other multi-dimensional data ?  
(A) string (B) arrays  
(C) char (D) integer
- (81) In following array, if `int mark[] = {70, 90, 20}` is defined, then what will be value of `mark[2]` ?  
(A) 20 (B) error  
(C) 70 (D) 90
- (82) The array variable starts its index value with what ?  
(A) null (B) 2  
(C) 1 (D) 0
- (83) Who established a “has-a” relationship between class ?  
(A) Composition and Aggregation (B) Methods & Object  
(C) Relations & Method (D) Inheritance & Aggregation
- (84) Java have a ..... that looks for unused objects and reclaims the memory that those objects are using.  
(A) reclaim collector (B) unused collector  
(C) memory collector (D) garbage collector
- (85) The word polymorphism means what ?  
(A) many forms (B) virtual forms  
(C) one form (D) more prism
- (86) Which of the following is syntax of package ?  
(A) `package {Name};` (B) `package (Name);`  
(C) `package <Package Name>;` (D) `package [Variable name];`
- (87) ..... is special kind of method that is invoked when a new object is created.  
(A) Common class (B) Super class  
(C) Composition (D) Constructors
- (88) Which are the four P’s used in the four level of visibility to provide necessary protection ?  
(A) `process, private, protected, public` (B) `public, package, protected, private`  
(C) `public, package, protected, process` (D) `private, package, protected, public`
- (89) Highest level of protection can be achieved by using which protection level ?  
(A) Private (B) Process  
(C) Public (D) Package
- (90) If we want to allow other methods to read only the data value ..... method can be used.  
(A) setter (B) updater  
(C) reader (D) getter

- (91) ..... allows us to build new class with add capabilities by extending existing class.  
(A) Inheritance (B) Instant  
**(C) Inheritance** (D) Instance
- (92) Control structure branches are used to choose two or more possible courses of action, is called as what ?  
(A) More structure (B) Loop structure  
(C) Addition structure **(D) Selective structure**
- (93) Switch statement can be stopped using which statement ?  
**(A) break** (B) run  
(C) loop (D) error
- (94) do ..... while loop is which type of loop ?  
(A) loop controlled (B) break controlled  
**(C) exit controlled** (D) entry controlld
- (95) To use a labeled loop, which symbol is added before the loop ?  
(A) \* (B) \$  
**(C) :** (D) #
- (96) In Java, the text written in /\* ..... \*/ is considered as what ?  
(A) Method **(B) Comment**  
(C) Function (D) Variable
- (97) User can create Java Source file by using ..... application.  
(A) Only SciTE Editor **(B) Both ASCII Text editor and SciTE Editor**  
(C) ASCII Text Editor (D) SciTE editor
- (98) The definition of the method (function) in Java consists of function header and the sequence of statements enclosed in which bracket ?  
**(A) { }** (B) < >  
(C) ( ) (D) [ ]
- (99) Java supports how many primitive data types ?  
(A) 3 **(B) 8**  
(C) 4 (D) 7
- (100) Which of the following data type is used for real numbers ?  
(A) short (B) char  
(C) long **(D) double**

