Time: 3 Hrs   MM:50

I) **The Question paper contains 10 multiple choice questions with four choices and student will have to pick the correct one (each carrying ½ mark).**

1. Java Source Code is compiled into _____.

A. Exe   B Bytecode

C. Obj   D Source Code

2. Which of the tool is used to compile java code ?

A javac   B javadoc

C jar   D java

3. Which of the following tool used to execute java code.

A javac   B rmic

C javadoc   D java

4. Which of the following is used to interpret and execute Java Applet Classes hosted by HTML.

A appletwatcher   B appletscreen

C appletviewer   D appletshow

5. HTML based Java Documentary help can be accessed using _____.

A none of these   B javamanual

C javadoc   D javahelp

6. What is the stored in the object obj in following lines of code?

a) Memory address of allocated memory of object. b) NULL

c) Any arbitrary pointer   d) Garbage

7. Which of these keywords is used to make a class?

a) class   b) struct

c) int   d) None of the mentioned

8. Which of the following is a valid declaration of an object of class Box?

a) Box obj = new Box() b) Box obj = new Box;

c) obj = new Box() d) new Box obj

9. Which of these operators is used to allocate memory for an object?

a) malloc b) alloc

c) new   d) give

10. Which of these statement is incorrect?

a) Every class must contain a main() method.   b) Applets do not require a main() method at all.

c) There can be only one main() method in a program.   d) main() method must be made public.

11. How to call methods of class?

a object.method   b classname .method   c only method   d none of these

12.x=x+1 is equivalent to_____?

 a ++x   b x++   c x=x-1   d None of these

13.Constructor has return type?

a Yes   b No

14.if method have same name as class name and method don't have any return type then it is known as_____

 a Destructors   b Constructor   c Object   d Variable

15.Methods that have same name ,but different Parameter list and different definition known as_____

 a Overriding   b Constructor   c Overloading   d none of these

16.Inheritance means_____

 a Sub class extends super class   b Sub class extends Base class
 c Sub class create object of super class   d all of the above

17.Which type of inheritance is not supported by java?

 a Single   b Multiple   c Multilevel   d Hierarchical

18.When method defined in subclass which has same signature as a method in a super class, it is known as method _____

a Overloading   b Overriding   c Packing   d none of these

19.Super is the predefined _____

 a Keyword   b Method   c Keyword and Method   d none of these

20.Execution of the program is always begins with _____

 a main method   b class contain main method   c parent class   d default package

21.A constructor

A.must have the same name as the class it is declared within.   B.is used to create objects.

C.may be declared   D. private

22.Which of the following may be part of a class definition?

A.instance variables B.instance methods   C.constructors   D.all of the above

23.What is different between a Java applet and a Java application?

A.An application can in general be trusted whereas an applet can't.

B.An applet must be executed in a browser environment.

C.An applet is not able to access the files of the computer it runs on

D.(A), (B) and (C).

24.What is byte code in the context of Java?

A.The type of code generated by a Java compiler

B.The type of code generated by a Java Virtual Machine

C.It is another name for a Java source file

D.It is the code written within the instance methods of a class.

25.What is the name of the method used to start a thread execution?

A.   init(); B.   start(); C. run(); D.   resume();

26 .Can we compare int variable with a boolean variable?

A - True B - False

27. What is the size of float variable?
A - 8 bit B - 16 bit
C - 32 bit   D - 64 bit
28. What is the default value of short variable?
A - 0.0 B - 0
C - null D - not defined
29 What is polymorphism?
A - Polymorphism is a technique to define different objects of same type.
B - Polymorphism is the ability of an object to take on many forms.
C - Polymorphism is a technique to define different methods of same type.
D - None of the above.
30. Given the piece of code, select the correct to replace at the comment line?

```
class A {
A(int i) { }
}
public class B extends A {
B() {
// xxxxx
}
public static void main(String args[]) {
B b = new B();
}
}
```

A super(100); B this(100); C super(); D this();
31. Which of the statements are true?
A Overridden methods have the same method name and signature
B Overloaded methods have the same method name and signature
C Overridden methods have the same method name and different signature
D Overloaded methods have the same method name and different signature
32. What is the output when you execute the following code?

```
int i = 100;
switch (i) {
case 100:
System.out.println(i);
case 200:
System.out.println(i);
case 300:
System.out.println(i);
}
```

A Nothing is printed B Compile time error C The values 100,100,100 printed D Only 100 is printed
33. How can you change the break statement below so that it breaks out of the
inner and middle loops and continues with the next iteration of the outer loop?

```
outer: for ( int x =0; x < 3; x++ ) {
middle: for ( int y=0; y < 3; y++ ) {
if ( y == 1 ) {
break;
}}}
```

A break inner: B break middle: C break outer: D continue   E continue middle
34. From the following code how many objects are garbage collected?

String string1 = "Test";
String string2 = "Today";
string1 = null;
string1 = string2;
A 1 B 2   C 3 D 0

35. Which of these keyword must be used to inherit a class?
a) super b) this
c) extent d) extends
36. Which of these keywords is used to refer to member of base class from a sub class?
a) upper b) super
c) this d) None of the mentioned
37. A class member declared protected becomes member of subclass of which type?
a) public member b) private member
c) protected member d) static member
38. Which of these is correct way of inheriting class A by class B?
a) class B + class A {}   b) class B inherits class A {}
c) class B extends A {}   d) class B extends class A {

39. Which of the following statements are incorrect?
a) public members of class can be accessed by any code in the program.
b) private members of class can only be accessed by other members of the class.
c) private members of class can be inherited by a sub class, and become protected members in sub class.
d) protected members of a class can be inherited by a sub class, and become private members of the sub class.
40. Which of these keyword can be used in subclass to call the constructor of superclass?
a) super b) this
c) extent d) extends

II) Attempt any four questions out of six all question carry 7 ½ marks
Q:1 What is synchronization in multithreading ?Expalin with example?
Q:2How to pass parameters to applet?explain with example?
Q:3 Insert record into a table using jdbc?create form in awt?
Q:4 What is multiple inheritance in java ?how we will perform multiple inheritance?
Q:5 What border layout manager ?Explain?
Q:6 What is jdbc and its drivers?explain?