

22412

24225

3 Hours / 70 Marks

Seat No.

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- Instructions* – (1) All Questions are *Compulsory*.
(2) Illustrate your answers with neat sketches wherever necessary.
(3) Figures to the right indicate full marks.
(4) Assume suitable data, if necessary.
(5) Mobile Phone, Pager and any other Electronic Communication devices are not permissible in Examination Hall.

Marks

- 1. Attempt any FIVE of the following :** **10**
- a) List any two relational operators and any two bitwise operators in Java.
 - b) State use of finalize () method with its syntax.
 - c) Write down the syntax of array declaration and initialization.
 - d) List any four Java API packages.
 - e) Define error. List types of error.
 - f) Write down the use and syntax of following methods.
 - i) drawString ()
 - ii) drawRect ()
 - g) Define stream class. List its types.

P.T.O.

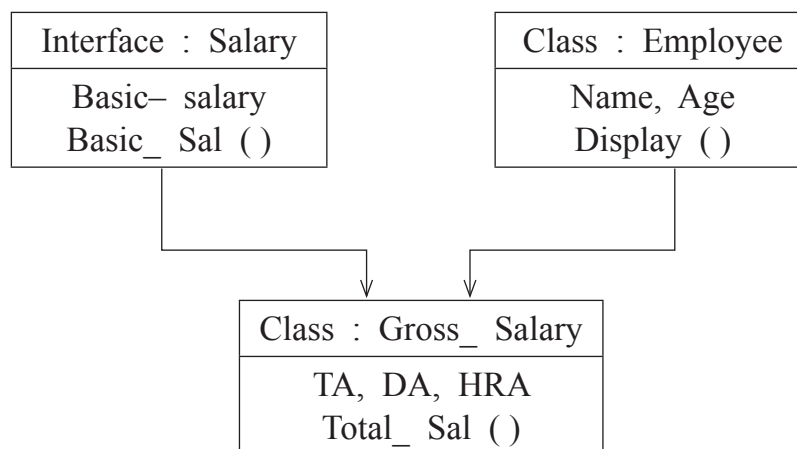
- 2. Attempt any THREE of the following :** **12**
- a) Write a program to find reverse of a number.
 - b) Differentiate between Vector and Array. (Any four points)
 - c) Explain single and multilevel inheritance with example.
 - d) Describe exception handling mechanism w.r.t. try, catch, throw and finally.
- 3. Attempt any THREE of the following :** **12**
- a) Write all primitive data types available in Java with their storage sizes in bytes.
 - b) Define package. How to create user defined package ? Explain with example.
 - c) Write a program to print even and odd number using two threads with delay of 1000 ms after each number.
 - d) Explain any four methods of font class with their usage.
- 4. Attempt any THREE of the following :** **12**
- a) Describe any four features of Java.
 - b) Define a class employee with data members 'empid', 'name' and 'salary'. Accept data for five objects and display it.
 - c) Define exception called 'No Match Exception' that is thrown when the password accepted is not equal to 'MSBTE'. Write the program.
 - d) Distinguish between Java Applet and Java Application. (Any four points)
 - e) Write any four methods of file class with their use and syntax.

5. Attempt any TWO of the following :**12**

- Describe vector class along with its constructors. Explain any three methods of vector class.
- Describe life cycle of thread with suitable diagram.
- Explain how to pass parameter to an applet ? Write an applet to accept username in the form of parameter and print "Hello <username>".

6. Attempt any TWO of the following :**12**

- Define constructor ? List types of constructors. Explain parameterized constructor with suitable example.
- Implement the following inheritance.

**Fig. No. 1**

- Write a Java program to count the number of words from a text file using stream classes.
