



12176

21314

3 Hours/100 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.**
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MARKS

1. A) Attempt **any 3** : **12**
- a) State any four features of Java.
 - b) What is constructor ? Explain constructor overloading with example.
 - c) State how to create user defined package and accessed in Java.
 - d) What is thread ? Describe the complete life cycle of 'thread'.
- B) Attempt **any one** : **6**
- a) Write an applet to accept a user name in the form of parameter and print 'Hello < User Name >'.
 - b) Write a program to implement the Fibonacci series using for loop control.
2. Attempt **any two** : **16**
- a) Write a program to create two thread one thread to print numbers in original order and other in reverse order from 1 to 50.
 - b) Define a class employee with data members as emp_id, name and salary accept data for 5 objects and print it.
 - c) Write syntax and example of
 - 1) drawString()
 - 2) drawRect()
 - 3) drawOval()
 - 4) drawArc()
3. Attempt **any 4** : **16**
- a) Explain Bit-wise operator with example.
 - b) Write a program to copy contents of one file to another file using character stream class.
 - c) Write a program to accept a password from user and throw "Authentication failure" exception if the password is incorrect.
 - d) Explain method overloading with example.
 - e) List any 4 built in packages from Java AP1 along with their use.

P.T.O.


4. A) Attempt any 3 :

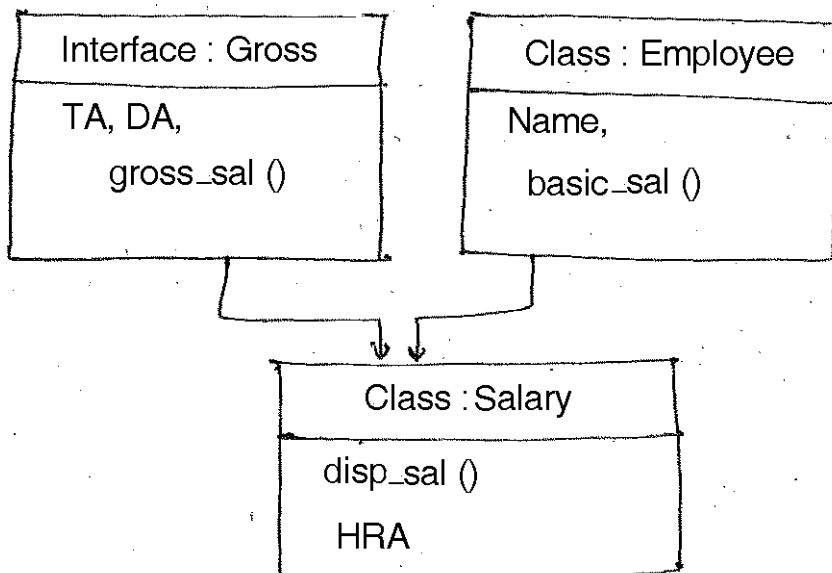
- a) Explain following method of vector class
 - 1) elementAt ()
 - 2) removeElement ()
 - 3) insertElementAt ()
 - 4) addElement ()
- b) Explain type casting with suitable example.
- c) What is thread priority ? Write default priority values and methods to change them.
- d) Design an applet which display a triangle filled with red colour and a message as "The triangle" in blue below it.

B) Attempt any one :

- a) Write all primitive data types available in Java with their storage class.
- b) Explain life cycle of applet with diagram.

6
5. Attempt any two :

- 1) Write a program to make following inheritance :



- 2) Explain following terms with respect to exception handling
 - 1) try
 - 2) catch
 - 3) throw
 - 4) throws
 - 5) finally
- 3) Write a program to accept as many integers as user wants in a vector. Delete a specific element and display remaining list.

6. Attempt any 4 :

- a) Explain any 4 components of JDK.
- b) Explain the functionality of file class.
- c) What is interface ? How do they differ from class ?
- d) Explain break and continue statement with example.
- e) Write a program to accept number from user and convert it into binary by using wrapper class method.

16