2013

OBJECT ORIENTED PROGRAMMING WITH JAVA

Time Allotted: 3 Hours

The figures in the margin indicate full marks. Candidates are required to give their answers in their own words as far as practicable.

GROUP - A (Multiple Choice Type Questions)

- Choose the correct alternatives for the following: $10 \times 1 = 10$ 1.
 - JVM stands for 11
 - a) Java Virtual Machine b) Java Vision Machine
 - c) Java Visual Machine d) none of these.
 - String str ="ABCD"; iil System.out.println (str.charAt(2)); The output is
 - C a)

- b)
- exception occurs c)
- d) none of these.
- Dynamic method dispatcher is used full for mi)
 - resolving method overriding a)
 - resolving multilevel inheritance b)
 - resolving multiple inheritance anomaly c)
 - d) none of these.

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Turn over

| 10) | m J | in Java applet, stop() method can be invoked | | | | |
|------|--|---|----------|----------------------|--|--|
| | a) | once | b) | twice | | |
| | c) | many times | d) | not at all. | | |
| v) | Which of the following statements is true rega constructors? | | | | | |
| | a) | All cases must define | e a con | structor | | |
| | b) | b) A constructor can be declared private | | | | |
| | c) | c) A constructor can return a value | | | | |
| | d) | A constructor must class. | t initia | alize all the fields | | |
| vi) | | What is the return type of read() method InputStream class? | | | | |
| | a) | String | b) | Float | | |
| | c) | Void | d) | None of these. | | |
| vii) | Wh | Which of the following JSP expressions are valid? | | | | |
| | a) | a) <%="Sorry"+"for the"+"break"%> | | | | |
| | b) | <%="Sorry"+"for the"+"break";%> | | | | |
| | c) | <%="Sorry"%> | | | | |
| | d) | <%="Sorry";%> | | | | |
| viii | 70 | A class can be converted to a thread by implement the interface | | | | |
| | a) | Thread | b) | Runnable. | | |
| ix) | Wł | nich is not allowed in EJB programming? | | | | |
| | a) | Thread Management | | | | |
| | b) | Transient Fields | | | | |
| | c) | Listening on a Socke | et. | | | |
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What happens if Database Updation code is written in (X ejbPassivate() method and if this method is called ? Exception is thrown a) Successfully executes the Database Updation code b) Compilation error occurs indicating that Database ding cl written should not be Updation code ejbPassivate() d) ejbStore() method is called. GROUP - B (Short Answer Type Questions) of a Answer any three of the following. $3 \times 5 = 15$ 2. Write a program to create a window and set its title with "IETE" using AWT. d of How will you call parameterized constructor and overrided 3. method from parent class in sub-class? Explain object serialization in Java with suitable example. In Java, explain how to call a constructor from another. 5. a) Indicate the difference between PATH and CLASSPATH. b) Can a super class object reference a sub-class object ? 3+2 б. a) Explain. Illustrate the uses of 'this' and 'super' keywords. b) Illustrate the uses of 'integer' and 'Integer' keyword. c) enting 1+2+2 GROUP - C (Long Answer Type Questions) Answer any three of the following. $3 \times 15 = 45$ What are Adapter classes? a) What is multithreading ? What are the two different bl ways to create multithreaded program ? What is the difference among final, finally and finalize?

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Turn over

| a class member? | o between an instance member and |
|--|--|
| | few options used with JAR. |
| 8. a) What is polymorphi | sm ? Differentiate between compile polymorphism with the help of |
| b) What is the role of | |
| | es ? Explain the steps to create |
| 9. a) What is the different based IO streams and byte based stream | P Discuss different types of character eams. 3 + 6 |
| b) Write a program keyboard and prin | to input three integers through |
| a) Describe the difference applet. | erent stages in the life-cycle of ar |
| b) Distinguish betwee | en init() and start() methods. |
| c) What is synchron | zation? When is it used? |
| d) Give an example of multiple inheritar | where interface can be used to supported. 4 + 3 + 3 + |
| 11. Write short notes on a | ny three of the following: $3 \times$ |
| a) Abstract class | |
| b) Exception handli | ng |
| c) Interface | |
| d) Applet viewer | |
| e) JVM. | |
| | |