



**AD-1740**  
**B.Sc. (I.T.) (Sem. VI) Examination**  
**March/April – 2015**  
**Java**

Time : 3 Hours]

[Total Marks : 70

Instructions :

(1)

<p>नीचे दर्शायेव निशानीवाणी विगतो उत्तरवडी पर अवश्य लपवी. Fillup strictly the details of signs on your answer book.</p> <p>Name of the Examination : B.SC. (I.T.) (SEM. 6)</p> <p>Name of the Subject : JAVA</p> <p>Subject Code No. : 1 7 4 0 Section No. (1, 2,.....): Nil</p>	<p>Seat No. : <input type="text"/><input type="text"/><input type="text"/><input type="text"/><input type="text"/><input type="text"/><input type="text"/></p> <p style="text-align: center; border: 1px solid black; border-radius: 15px; padding: 10px;">Student's Signature</p>
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(2) Draw the figure and give example wherever necessary.

1 Answer the following : (Attempt any **nine**) 18

- (1) Why is main method declared as public and static?
- (2) Inheritance must be performed, if two class or entities have \_\_\_\_\_ relation.
- (3) What should be installed in a java program developer's machine?
- (4) Can you override all the functions of Object class? Justify.
- (5) Can you import a package twice in Java program? Justify your answer.
- (6) You have a class named as Car. What happens, when we execute the following?  
Object o = new Car( ); o.move( );
- (7) What happens, if a variable is declared as transient?
- (8) What does notify( ), notifyALL( ), wait( ), interrupt( ) functions do?
- (9) What happens when a class is declared as non-public?
- (10) How can you call another constructor from a constructor in the same class?

- 2** Answer the following : (Attempt any **three**) **18**
- (1) What are abstract classes? Why do we need them? Explain with example.
  - (2) When do we implement serializable interface? Explain with example.
  - (3) What is deadly death of diamond? How can one resolve it?
  - (4) Explain what happens when you declare a class, function, variable and constructor as final? Give examples.

- 3** Do as follows : (Attempt any **three**) **18**
- (1) How multiple inheritance is implemented in Java? Explain it by giving suitable example.
  - (2) Explain Set interface in detail with a suitable example of its implementation.
  - (3) What is the use of Runnable interface? Explain with example.
  - (4) Explain checked and unchecked exception with an example.

- 4** Answer the following : **16**
- (1) What is an adapter class? Explain with an example. **5**
  - (2) Write the steps of event handling. Write a program to handle MouseEvent. **5**

**OR**

- (2) State the hierarchy and life cycle of Applet. Give suitable example. **5**
- (3) Write a program to accept user details from user and insert it table using JDBC Java API. **6**