



DDD-1740

B. Sc. (I.T.) (Sem. VI) Examination

March / April - 2016

Java

Time : 3 Hours]

[Total Marks : 70

Instructions :

(1)

નીચે દર્શાવેલ નિશાનીવાળી વિગતો ઉત્તરવહી પર અવશ્ય લખવી. Fillup strictly the details of signs on your answer book.	Seat No. :
Name of the Examination :	<input type="text"/>
<input type="text" value="B. Sc. (I.T.) (SEM. 6)"/>	<input type="text"/>
Name of the Subject :	<input type="text"/>
<input type="text" value="JAVA"/>	<input type="text"/>
Subject Code No. : <input type="text" value="1"/> <input type="text" value="7"/> <input type="text" value="4"/> <input type="text" value="0"/>	Section No. (1, 2,.....) : <input type="text" value="NIL"/>
Student's Signature	

(2) Draw the figure and give example wherever necessary.

1 Answer the following : (attempt any nine)

18

- (i) Why is main method declared as public and static ?
- (ii) Inheritance must be performed, if two class or entities have \_\_\_\_\_ relation.
- (iii) State whether the following statement is true or false with justification.  
“One can override all the functions of Object class”.
- (iv) What happens, if a variable is declared as transient ?
- (v) What does notify(), notifyALL(), wait(), interrupt() functions do ?
- (vi) What happens when a class is declared as non-public ?
- (vii) What are the java beans ? What is introspection ?
- (viii) Compare the use of “instance of” and getClass() method.
- (ix) Explain garbage collection in java.
- (x) Explain Implicit and explicit type casting.

- 2** Answer the following : (attempt any three) **18**
- (i) What is the difference between abstract class and interface ? Explain with example.
  - (ii) When do we implement serializable interface ? Explain with example.
  - (iii) What is deadly death of diamond ? How can one resolve it ?
  - (iv) Write a program to create deadlock.
- 3** Do as follows : (attempt any three) **18**
- (i) How can you perform multiple inheritance in Java ? Explain it by giving suitable example.
  - (ii) Write a note on package. Discuss various access protections with it.
  - (iii) What is the use of Runnable interface ? Explain with example.
  - (iv) Difference Vector and array with example.
- 4** Answer the following : **16**
- (i) What is an adapter class ? Explain with an example. **5**
  - (ii) Write a program to accept course name in combo box and display number of semester on the selection. **5**
- OR**
- (ii) State the hierarchy and life cycle of Applet. Give suitable example. **5**
  - (iii) Write a program to create user defined checked exception. **6**
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