

[A-52]

**SARDAR PATEL UNIVERSITY**  
**Post Graduate Diploma in Computer Applications II Semester Examinations**  
**PGDCA-203 (Object Technology)**

Date: 05 /04 /2016

Time: 10:30 am to 1:30 pm

Marks: 70

**Q-1**      **Select the most appropriate answer for the following questions:**      **[08]**

1. \_\_\_\_\_ often reduces multiplicity.  
(a) Qualifier  
(b) Roll name  
(c) Encapsulation  
(d) None of these
2. \_\_\_\_\_ is a key success factor of OT.  
(a) Education  
(b) Productivity  
(c) Adaptability  
(d) None of these
3. \_\_\_\_\_ notation/tool is used to represent an object oriented design such as class diagram and instance diagram.  
(a) XML  
(b) HTML  
(c) UML  
(d) Any of these
4. \_\_\_\_\_ is also known as data about data.  
(a) Big data  
(b) Coded data  
(c) Key data  
(d) Meta data
5. **JVM full form is \_\_\_\_\_.**  
(a) Java Virtual Machine  
(b) Joint Virtual Machine  
(c) Java Violating Mechanisms  
(d) None of these
6. \_\_\_\_\_ operator is used to create new instances of a class.  
(a) Class  
(b) New  
(c) Exception  
(d) None of these
7. **Writing many constructors is an example of \_\_\_\_\_.**  
(a) Encapsulation  
(b) Polymorphism  
(c) Inheritance  
(d) None of these
8. \_\_\_\_\_ access specifier provides access to everyone.  
(a) Friend  
(b) Private  
(c) Protected  
(d) Public

- Q-2 Answer the following questions (ANY SEVEN) [14]**
1. Give full forms and major difference between OT and OBT.
  2. Explain concept of link.
  3. Define: (i) Encapsulation and (ii) Inheritance.
  4. What is Java? List the features of Java.
  5. Explain "if" control statement in Java.
  6. How constant can be defined in Java? Explain with example.
  7. List access specifiers of Java. Explain any one in brief.
  8. What is thread in Java? List two ways to implement thread.
  9. What is Java applet? How it is different form Java application?

- Q-3[A] List and explain various key success factors related to OT. [06]**  
**[B] Find the key concepts and the key mechanisms in a typical outdoor patient monitoring systems. [06]**

**OR**

- [B] Find key concepts and key mechanisms in typical bank account management system. [06]**

- Q-4[A] Write a note on modelling association as class. Also give an example of your choice with an appropriate class diagram. [06]**  
**[B] Consider an example of furniture showroom manufacturing and selling furniture. Show generalization in the example. [06]**

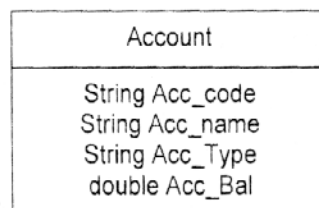
**OR**

- [B] Explain various types of aggregations by taking suitable examples in brief. [06]**

- Q-5[A] Explain how Java offers platform independence. [06]**  
**[B] Write a sample Java program printing "Hello" and explain its structure/anatomy. [06]**

**OR**

- [B] Write a constructor of an Account class with all parameters as defined below. [06]**



- Q-6[A] Explain concept of an array in Java. Develop a Java program which defines an array of ten integers and prints the elements in a proper format. [06]**  
**[B] Write a short note on Java exceptional handling. [06]**
- OR**
- [B] Describe the applet life cycle in Java by giving suitable diagram. [06]**

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