

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

Date: 22/10/2016
Saturday

Time: 10:00 am to 1:00 pm

Marks: 70

Q-1

Select the appropriate answer for the following questions: [08]

1. _____ is an example of an object.
(a) Bird
(b) Book
(c) Boy
(d) All of these
2. Ternary link associates _____ entities simultaneously.
(a) 1
(b) 2
(c) 3
(d) Many
3. _____ is used to visualize the complex process and to enable communication between users.
(a) Program
(b) Model
(c) Users
(d) None of these
4. _____ is also known as data about data.
(a) Big data
(b) Coded data
(c) Key data
(d) Metadata
5. Java uses _____.
(a) A compiler
(b) An interpreter
(c) Both compiler and interpreter
(d) None of these
6. _____ is a special method of a class in java that initializes an object of that type.
(a) Class definition
(b) Constructor
(c) Object
(d) None of these
7. JVM stands for _____.
(a) Java variable method
(b) Justin time virtual machine
(c) Just valid machine
(d) Java virtual machine
8. _____ is an access modifier in java.
(a) Private
(b) Protected
(c) Public
(d) All of these

- Q-2 Answer the following questions (ANY SEVEN) [14]**
1. Define inheritance. Also list two advantages of inheritance.
 2. What is a class? Explain in brief by giving an example.
 3. Define compulsory multiplicity with an example.
 4. Define motivation as a key success factor for object technology.
 5. What is a role name? Give an example.
 6. Explain if control statement in java.
 7. Define private class in java. Also give its use.
 8. What is an exception? Give examples of two exceptions that occur in java.
 9. Define inputStream and outputStream in java.
- Q-3[A] Define and discuss: (i) encapsulation and (ii) polymorphism with examples. [06]**
- [B] Find key concepts and key mechanisms in a typical inventory management system managing inventory of mobile and mobile accessories. [06]**
- OR**
- [B] Find key concepts and key mechanisms in typical employee attendance system. [06]**
- Q-4[A] What is model? Discuss advantages of using models in detail. [06]**
- [B] What is generalization? Explain generalization in the area of books (in a library) by giving diagram. [06]**
- OR**
- [B] What is propagation of an operation? Explain the unidirectional property of propagation of an operation by giving its class diagram. [06]**
- Q-5[A] Describe features of java programming language in detail. [06]**
- [B] Explain structure of typical java program. [06]**
- OR**
- [B] Write a java program that defines an array of 10 integers and print it in a reserve manner.**
- Q-6[A] Write a parameterized constructor of a Book class with all parameters such as book code, book name, authors, publisher, and price. [06]**
- [B] Define: (i) applet, (ii) extends, and (iii) new in java programming language. [06]**
- OR**
- [B] Define thread. List two applications of the thread. Also list two methods of implementing threads in java. [06]**

-----XX----XXX----XX-----