

(84 & A-36) Seat NO: \_\_\_\_\_

No. of printed pages: 2

**SARDAR PATEL UNIVERSITY**  
**M. Sc. Information Technology**  
Semester – III External Examinations  
**PS03CINT01 – Java Programming**  
Wednesday, 19<sup>th</sup> October, 2016

Time: 02:00 p.m. to 05:00 p.m.

Max Marks: 70

Q-1 Give answers of following Multiple choice questions

[8]

1. The process of creating the new classes and using the behavior of the existing classes is known as \_\_\_\_\_.  
(A) Inheritance (B) Encapsulation  
(C) Polymorphism (D) Dynamic Binding
2. Which feature of Java performs the deallocation of objects automatically?  
(A) Distributed (B) Platform Independence  
(C) Garbage Collection (D) Portability
3. For which type of the class, the object cannot be created?  
(A) Sub class (B) Abstract class  
(C) Derived class (D) Super class
4. Which of the following mechanism allows Java to perform run-time polymorphism?  
(A) Dynamic Method Dispatch (B) Method Overriding  
(C) Compile-time Method Dispatch (D) None of these
5. \_\_\_\_\_ event will be called automatically when ActionListener is invoked.  
(A) actionPerformed(ActionEvent ae) (B) actionPerformed(ActionListener ae)  
(C) repaint() (D) paint(Graphics g)
6. Classes for network programming belongs to \_\_\_\_\_ package  
(A) java.io (B) java.net  
(C) java.util (D) java.network
7. CORBA stands for \_\_\_\_\_.  
(A) Common Object Reference Build Architecture (B) Common Object Request Build Application  
(C) Common Object Request Broker Architecture (D) Common Object Reference Broker Application
8. Java mail also supports \_\_\_\_\_ protocol.  
(A) Network Node Transfer Protocol (NNTP) (B) Network News Transport Protocol (NNTP)  
(C) Network Node Transport Protocol (NNTP) (D) Network News Transfer Protocol (NNTP)

(P.T.O.)

**Q-2 Answer the following questions (Any Seven):**

**[14]**

1. Write a brief note on JVM.
2. Explain static keyword.
3. What is interface in Java?
4. Explain various access specifiers available in Java.
5. Discuss any one class which is used for reading user input.
6. Explain the use of super and final keywords.
7. Differentiate between AWT and Swing.
8. What is Java Beans? Brief about advantages of Beans.
9. Discuss any one class which is used to read the data from file.

**Q-3**

- [A] Explain features of JAVA. **[6]**
- [B] What is Polymorphism? Explain method overloading and method overriding with example. **[6]**

**OR**

- [B] What is Exception? Define checked and unchecked exception. How to create and manage user defined exception. **[6]**

**Q-4**

- [A] Explain four types of drivers used for JDBC. **[6]**
- [B] What is Applet? Explain Applet life cycle and Graphics class. **[6]**

**OR**

- [B] Explain any three Swing components with its properties and methods. **[6]**

**Q-5**

- [A] Explain JSP Life cycle and JSP Tags. **[6]**
- [B] What is Servlet? Explain life cycle and methods used for Servlet Application. **[6]**

**OR**

- [B] How to execute Socket programming? Explain InetAddress class. **[6]**

**Q-6**

- [A] What is Java Mail API? Explain architecture with supported protocols. **[6]**
- [B] Discuss ArrayList collection with sample code snippet. **[6]**

**OR**

- [B] Define CORBA. Explain how CORBA and RMI are different. **[6]**

□□□

2