

Enrollment No:- \_\_\_\_\_

Exam Seat No:- \_\_\_\_\_

## C.U.SHAH UNIVERSITY

Summer-2015

Subject Code: 5CS02JPL1

Subject Name: Java Programming

Course Name: M.Sc. (IT)

Date: 15/5/2015

Semester: II

Marks: 70

Time: 02:30 TO 05:30

---

### Instructions:

- 1) Attempt all Questions of both sections in same answer book/Supplementary.
  - 2) Use of Programmable calculator & any other electronic instrument prohibited.
  - 3) Instructions written on main answer book are strictly to be obeyed.
  - 4) Draw neat diagrams & figures (if necessary) at right places.
  - 5) Assume suitable & perfect data if needed.
- 

### SECTION-I

Q.1 Attempt the Following Questions: (07)

- (1) What is java Byte Code?
- (2) What is recursion?
- (3) What is JDK?
- (4) What is Wrapper class?
- (5) What is Super keyword?
- (6) Write differences between Checked and Unchecked Exception
- (7) What is Typecasting?

Q.2 Attempt the Following Questions: (14)

- (1) What is Abstract class? Explain Abstract class with suitable example.
- (2) Write a program to find out that given number is prime or not using command line.
- (3) Discuss pass by value and pass by reference in Java with proper example.

OR

Q.2 Attempt the Following Questions: (14)

- (1) Explain any five java Operators with examples.
- (2) Write a java program to find factorial for give numbers using command line.
- (3) What is a Constructor? Explain the Constructor Overloading with example.

Q.3 Attempt the Following Questions: (14)

- (1) What is Inheritance? Explain the types of Inheritance with examples.
- (2) What is Package? Write a Step to Create Package with suitable examples.

OR

Q.3 Attempt the Following Questions: (14)

- (1) What is Interface? Explain the Interface with examples.

Page 1 of 2



**C. U. SHAH UNIVERSITY**

(Established under Gujarat Private Universities (Amendment) Act II of 2002)

Sponsored By: VARDHMAN BHARTI TRUST

15-5

(2) What is Enum? Explain enum type with example of java program code.

## SECTION-II

Q.4 Attempt the Following Questions: (07)

- (1) What is Stream?
- (2) What is the difference between Length and length ()?
- (3) List different tag uses in applet code with Syntax.
- (4) What is the unchecked and checked exception?
- (5) How to Run Applet Program with Syntax.
- (6) What is the difference between setCharAt and insert?
- (7) What is the default layout of an applet?

Q.5 Attempt the Following Questions: (14)

- (1) Explain Scanner and Buffered Reader Classes with examples.
- (2) Write differences between String and StringBuffer classes.
- (3) Make an Applet that create two buttons named “Black” and “Green” When a button is Pressed the background color of the applet will be “Black” and “Green”.

OR

Q.5 Attempt the Following Questions: (14)

- (1) What is File Class? Explain any four File methods with examples.
- (2) Explain Try, Catch, Throw, Throws and finally with example.
- (3) Write an Applet program to create Frame with Title name.

Q.6 Attempt the Following Questions: (14)

- (1) What is Layout Manager? Explain Any Three Layout with examples.
- (2) What is an Applet? Explain Applet life cycle with examples.

OR

Q.6 Attempt the Following Questions: (14)

- (1) Explain any five components of AWT with examples.
- (2) What is a Thread? Explain Thread life cycle and Thread priority.

