

Enrollment No: _____

Exam Seat No: _____

C. U. SHAH UNIVERSITY

Summer Examination-2017

Subject Name : Object Oriented Programming with JAVA

Subject Code : 4TE04OPJ1

Branch : B.Tech (CE,IT)

Semester : 4

Date : 17/05/2017

Time : 02:00 To 05:00

Marks : 70

Instructions:

- (1) Use of programmable calculator & any other electronic instrument is prohibited.
 - (2) Instructions written on main answer book are strictly to be obeyed.
 - (3) Draw neat diagrams and figures (if necessary) at right places.
 - (4) Assume suitable data if needed.
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- Q-1 Attempt the following questions: (14)**
- a) Who is the founder of JAVA? **01**
 - b) What do you mean by Platform Independence? **01**
 - c) Define Bytecode. **01**
 - d) Which is the Super Class of all classes in JAVA? **01**
 - e) Which is the default package imported in a java program? **01**
 - f) In Java, it is possible to create arrays of length zero. True or False. **01**
 - g) Give an example of instance method for String class in java. **01**
 - h) What is the use of parseInt() method? **01**
 - i) What is the syntax of main() method in Java? **01**
 - j) What is the use of javac command? **01**
 - k) Which basic keywords are used in exception handling? **01**
 - l) What is the full form of AWT? **01**
 - m) Which method is define in ActionListener interface? **01**
 - n) Which listener is used with Checkbox? **01**

Attempt any four questions from Q-2 to Q-8

- Q-2 Attempt all questions:**
- (a) Explain features of JAVA. **(06)**
 - (b) Write a program that demonstrate constructor overloading and method overloading. **(06)**
 - (c) Differentiate between JAVA and C++. **(02)**
- Q-3 Attempt all questions:**
- (a) Define inheritance. Write a program that demonstrate concept of inheritance. **(06)**
 - (b) Write a program that demonstrate concept of super, this and final keywords. **(06)**
 - (c) Differentiate between constructor and method of class. **(02)**
- Q-4 Attempt all questions:**
- (a) Define method overriding. Write a program that demonstrate concept of method overriding. **(06)**



- (b) Write a program to create two threads, one thread will print odd numbers and second thread will print even numbers between 1 and 10 numbers. (06)
- (c) Differentiate between error and exception. (02)

Q-5 Attempt all questions:

- (a) Define package. Write a program that demonstrate concept of user defined package. (06)
- (b) Write a method for computing x^y doing repetitive multiplication. Take x and y are of type integer and are to be given as command line arguments. Raise and handle exception for invalid values of x and y. (06)
- (c) Differentiate between abstract class and interface. (02)

Q-6 Attempt all questions:

- (a) Define applet. Write an applet program that demonstrate life cycle methods of applet. (06)
- (b) Write a program to define abstract class Calc with methods add(), sub(), mul() and div(). add() and sub() are an abstract methods. Implement the abstract methods and call all methods. (06)
- (c) Differentiate between String class and StringBuffer class. (02)

Q-7 Attempt all questions:

- (a) Define Layout Manager. Write an applet program that demonstrate Flow Layout and Grid Layout managers. (07)
- (b) Write a program that will display which items in the Checkboxes are selected. (07)

Q-8 Attempt all questions:

- (a) Write an event handling program to handle student registration form using your creativity. (Use atleast six different components) (08)
- (b) Write an event handling program to handle e-mail sending form using your creativity. (06)

