

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.

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)

