

C. U. SHAH UNIVERSITY

Winter Examination-2022

Subject Name : Object Oriented Programming with Java

Subject Code : 4TE04OPJ1

Branch: B.Tech (CE)

Semester: 4

Date: 19/09/2022

Time: 02:30 To 05:30

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) Which of the following, inheritance is not supported in Java through class?
 - a) Multilevel
 - b) Multiple
 - c) Single
 - d) Hierarchical
- b) Java Programming is invented by _____.
 - a) Bjarne Stroustrup
 - b) James Gosling
 - c) Dennis Ritchie
 - d) Guido van Rossum
- c) Which of these classes are the direct subclasses of the Throwable class?
 - a) RuntimeException and Error class
 - b) Error and Exception class
 - c) RealtimeException
 - d) IOException
- d) What is the process of defining a method in a subclass having same name & type signature as a method in its superclass?
 - a) Method overloading
 - b) Method overriding
 - c) Method hiding
 - d) None of the mentioned
- e) Which of the following for loop declaration is not valid?
 - a) for (int i = 20; i >= 2; -i)
 - b) for (int i = 7; i <= 77; i += 7)
 - c) for (int i = 2; i <= 20; i = 2* i)
 - d) for (int i = 99; i >= 0; i / 9)
- f) Which concept of Java that hide implementation details?
 - a) Encapsulation
 - b) Inheritance
 - c) Polymorphism
 - d) Abstraction
- g) Which one of the following is not a Java feature?
 - a) Object-oriented
 - b) Platform independent
 - c) Portable
 - d) Use of pointers
- h) Which of the following is an immediate subclass of the Panel class?
 - a) Applet class
 - b) Frame class
 - c) Dialog class
 - d) Window class
- i) Which of these functions is called to display the output of an applet?
 - a) display()
 - b) paint()
 - c) displayApplet()
 - d) PrintApplet()
- j) What is the abbreviation of AWT?



- k) What is Thread?
- l) Why Java is platform independent?
- m) What is JDK?
- n) What is Exception?

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

Q-2	Attempt all questions	(14)
A	List and explain different application of Java.	07
B	Write a Java program that shows use of Exception Handling using try, catch and final block.	07
Q-3	Attempt all questions	(14)
A	What is this keyword? List out its different use? Explain any one using java program.	07
B	What is Abstract class? Explain with Java program.	07
Q-4	Attempt all questions	(14)
A	Explain run-time Polymorphism with example.	07
B	Explain interface with example.	07
Q-5	Attempt all questions	(14)
A	Write a Java program that shows the use of Hybrid inheritance.	07
B	Draw and explain Thread Life Cycle.	07
Q-6	Attempt all questions	(14)
A	Explain adapter and anonymous class.	07
B	Write Java program that demonstrate of Applet life cycle.	07
Q-7	Attempt all questions	(14)
A	Write a Java program that demonstrates method overloading.	07
B	What is package? Write its advantages? List out different packages in JAVA.	07
Q-8	Attempt all questions	(14)
A	List and explain different java Buzz words.	07
B	What is constructor? What is constructor overloading? WAP that show use Constructor overloading.	07

