R13

Code No: 813AQ

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD
MCA III Semester Examinations, December - 2019
JAVA PROGRAMMING

Time: 3 Hours   **Max. Marks: 60**

Note: This question paper contains two parts A and B.

Part A is compulsory which carries 20 marks. Answer all questions in Part A. Part B consists of 5 Units. Answer any one full question from each unit. Each question carries 8 marks and may have a, b, c as sub questions.

PART - A

5×4 **Marks = 20**

1.a)	"Java is strongly typed programming language". Justify your answer.	[4]
b)	List the benefits of inheritance.	[4]
c)	Illustrate all the methods in StringTokenizer class.	[4]
d)	Discuss various Thread Priorities with suitable examples.	[4]
e)	Describe Applet Life Cycle and discuss all the methods.	[4]

PART - B

5×8 **Marks = 40**

2.a) Distinguish between constructor overloading and method overloading with suitable examples.
  b) Explain how does **String** class is different from the **String Buffer** class?   [4+4]

OR

3.a) Discuss about all the iterative statements in java.
  b) Write a Java program to find factorial of given number.   [5+3]

4.a) Explain static nested class and inner class with examples.
  b) Write a Java program for implementing final methods, final classes.   [4+4]

OR

5.a) What are the benefits of using packages in JAVA?
  b) How to import one package to another package? Give example.   [4+4]

6.a) What is Collection Frame work? Write a Java program for creating a Array List.
  b) What are the benefits of Hash Map? Compare Hash Map and Tree Map.   [4+4]

OR

7.a) How to handle primitive data types using the I/O package? Give suitable examples.
  b) Write a Java program to append the contents for existing file.   [4+4]

8.a) What are the different ways to handle exceptions?
  b) Write a Java Program to illustrate try with multiple catch statements.   [5+3]

OR

9.a) What is a single threaded Program? Write a Java Program for implementation of multithreading.
  b) Write about Daemon threads with examples.   [5+3]

10.a) Discuss about event classes and event listener interfaces in Java?
   b) Describe event delegation model in detail.   [5+3]

OR

11. Write a Java Program to create a Simple GUI form for Bio-Data.   [8]
(Use necessary awt components such as label, textbox, text area, checkbox, list, choice etc) **Name, Age, Gender, DOB, qualification, Experience, Address, Phone no.**