

Student Registration no.....

Course Code: DCAP501

Course Title: MODERN PROGRAMING TOOLS & TECHNIQUES -I

Time Allowed: 3 hours

Max. Marks: 80

1. *This paper contains 10 questions divided in two parts on 1 page.*
2. **Part A is compulsory.**
3. **In Part B (Questions 2 to 10), attempt any 6 questions out of 9. Attempt all parts of the selected question.**
4. *The marks assigned to each question are shown at the end of each question in square brackets.*
5. *Answer all questions in serial order.*
6. **The student is required to attempt the question paper in English medium only.**

**Part A**

Q.1 (a) Define Class inheritance.

(b) List various differences between classes and objects.

(c) Write a syntax to create nested class.

(d) What do you mean by wrapper classes?

(e) Name some of the uncaught exceptions.

(f) Define multithreaded programming.

(g) What are various functions of layout manager?

(h) Define AWT controls.

(i) Define variables and data types.

(j) Name various Standard Java Packages.

[10×2=20]

**Part B**

Q.2 Constructors are used to initialize variables of a class". Justify the statement writing in short about various types of constructors. Write a program to show the usage of constructor. [10]

Q.3 Write a program to illustrate concept of multidimensional array and single dimensional array. [10]

Q.4 What do you mean by class, How to define a class and how to add variables in class? [10]

Q.5 Write a short note on Lang, Util basics of standard java packages. [10]

Q.6 Define Exception handling types and use of uncaught exception. [10]

Q.7 Discuss in detail event delegation model with event classes. [10]

Q.8 Describe the use of AWT controls and layout manger in modern programming? [10]

Q.9 Write a program how to read and write from files. [10]

Q10 Describe fundamental java thread model, its priorities and synchronization. [10]