

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 wrapper class. [2]
(b) Define variables and data types. [2]
(c) What is the use of string buffer class? [2]
(d) What do you mean exception handling? [2]
(e) What is applet in modern programming tool? [2]
(f) Define multithreaded programming. [2]
(g) What are various function of layout manager? [2]
(h) Define AWT controls. [2]
(i) What role event classes play in event handling? [2]
(j) Name some of the uncaught exceptions. [2]

PART B

- Q.2 How applets and AWT controls helps in handling images and sound. [10]
Q.3 Write a program to illustrate concept of multilevel hierarchy, abstract and final Classes? [10]
Q.4 What do you mean by access protection and extended interfaces? Explain in detail. [10]
Q.5 Write a short note on Lang, Util basics of standard java packages. [10]
Q.6 Exception handling is the process of responding to the occurrence, explain with suitable arguments and examples? [10]
Q.7 Discuss in detail event delegation model with event classes. [10]
Q.8 Constructors are used to initialize variables of a class". Justify the statement writing in short about various types of constructors? [10]
Q.9 Write a program how to read and write from files. [10]
Q.10 What do you mean by priorities, synchronization, messaging in java thread model? [10]