

Student Regd. No

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COURSE CODE: DCAP501

COURSE TITLE: **MODERN PROGRAMMING 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 questions chosen.**

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.

**Part A**

Q1:

- (a) What do you mean by Keywords in java? Give example. (2)
- (b) Differentiate between pre-increment and post-increment operator? (2)
- (c) How can we declare two dimensional arrays in Java? (2)
- (d) Name the two operators used to perform the string operations. (2)
- (e) Differentiate between Packages and Interfaces. (2)
- (f) What do you mean by wrapper class? (2)
- (g) Define Constructors. (2)
- (h) Name four Byte stream classes available in Java. (2)
- (i) Name two methods used to create Random Access file in java. (2)
- (j) What do you mean by the term "Swings" in java? (2)

**Part B**

- Q2: Explain the features of Java programming language? (10)
- Q3: How can we define classes, objects and methods in java? (10)
- Q4: What do you mean by Inheritance? Explain the types of inheritance with examples. (10)
- Q5: Write a program to multiply two matrices and print the product. (10)
- Q6: Explain in detail the standard packages used in Java. (10)
- Q7: What is a thread? Explain the thread life cycle? (10)
- Q8: Explain the concept of Exception handling in Java? Explain the various keywords and terminologies used in it. (10)
- Q9: Write a program to copy characters from one file to another file. (10)
- Q10: What are the Applets? How applets can be used to handle images? (10)

-- End of Question Paper --