Student Regd. No

C

Course Code: DCAP501

Course Title: Modern Programming Tools & Techniques-I

Date of Exam: 15 March
Time Allowed: 3 hours
Session 09:30-12:30
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.
- 6. The student is required to attempt the question paper in *English medium only*.

Part-A

Q1: (a) Define the term Variable?

- (b) What is an Array?
- (c) What is the difference between String and StringBuffer Class?
- (d) What is a Constructor?
- (e) Define the term Interface.
- (f) What is a Package?
- (g) What is the difference between Byte Stream and Character Stream?
- (h) What do you mean by synchronization?
- (i) What is an Exception?
- (j) What does AWT stands for?

[2*10=20]

Part-B

- Q2: Write a short note on different Data Types in Java.
- Q3: What are the different Decision Making statements in Java? Explain each with proper syntax and flow chart diagram.
- Q4: What is a Constructor and what are its different types?
- Q5: What is Multithreading and what are the different ways of creating threads in Java?
- Q6: Write a short note on inheritance in Java.
- Q7: What are Packages in Java? Write down the steps for creating custom packages.
- Q8: What is an Interface and how can it be used to achieve multiple inheritance? Explain with example.
- Q9: Write a program to find the area of rectangle using default and parameterized constructor.
- Q10: Write a program to print first 20 Natural Numbers, each after a period of 1 sec.

[6*10=60]