Student Registration Number		
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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 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

((((a) What is the use of 'final' keyword in Java? b) Differentiate between 'Interface' and 'Abstract class'. c) What is the difference between 'String' and 'StringBuffer' class? d) What are the uses of 'final' keyword? e) Define 'Wrapper Class'. What is the need of Wrapper class? f) What do you mean by 'Thread Synchronization'? g) Discuss any two methods of 'RandomAccessFile' class. h) What are the various states of Applet life-cycle?	[2] [2] [2] [2] [2] [2] [2]
•	i) What is the difference between 'Window' and 'Frame' in AWT?	[2]
	j) Write any two methods of 'MouseListener' interface.	[2]
	PART-B	
Q2.	Discuss any five methods of 'String' class with example.	[10]
Q3.	Define Object, Class and Method. Differentiate between 'Method' and	F4 03
	'Constructor' with example.	[10]
Q4. Write a program to create a thread which prints all the even numbers from 20 to 0		
05	in descending order.	[10]
Q5. Write a program to create an Applet which contains a 'TextField' and a 'Button'.		
00	What have a second of a Chief and Ch	[10]
Q6.	What do you mean by Event Listener? Name any five Listener interfaces.	[10]
Q7.	Define Streams? Differentiate between Byte Stream and Character Stream	
\bigcirc 0	any three classes of Byte Stream.	[10]
Q8.	Define Exception. Differentiate between Checked Exception and Unchecked	
\bigcirc 0	Exception? (a) Define Nested class What are the two types of posted classes? [5]	[10]
Q9.	(a) Define Nested class. What are the two types of nested classes? [5](b) Discuss any two bitwise operators in Java. [5]	
Q10.		
Q IU.	(b) Differentiate between 'private' and 'protected' keywords in java. [5]	
	(b) Emerchance between private and protected Reywords in java. [b]	