

Reg. No.



MANIPAL INSTITUTE OF TECHNOLOGY

MANIPAL

(A constituent unit of MAHE, Manipal)

II SEMESTER M.C.A.

END SEMESTER EXAMINATION – APRIL/MAY 2019

(REVISED CREDIT SYSTEM)

SUBJECT: ADVANCED JAVA PROGRAMMING [MCA 4201]

24-04-2019

Time : 3 hours

Max. Marks : 50

Instructions to Candidates

1. Answer ALL questions.
2. Missing data may be suitably assumed.

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| 1A | Name the two Java classes required to establish connectionless network communication. Explain, with an example, the relevant methods and steps used for this. | 5 |
| 1B | Explain the use of URL class in Java. | 3 |
| 1C | What is the role of join () in multithreading? | 2 |
| 2A | Explain the nested and inner class concept in Java with a program. | 5 |
| 2B | What is a ResultSet? What are the two ways of retrieving data from the ResultSet? Explain with an example. | 3 |
| 2C | List any two selection modes in JList and explain them briefly. | 2 |

3A	Explain the method of creating the thread using runnable interface with a suitable example	5
3B	<p>Given the four strings s1, s2, s3, and s4:</p> <pre>String s1 = "Welcome to Java"; String s2 = s1; String s3 = new String("Welcome to Java");</pre> <p>what are the results of the following expression?</p> <ul style="list-style-type: none"> i) s2 == s3 ii) s1.compareTo(s2) iii) s1.equals(s3) iv) s1.lastIndexOf('a') v) s2.lastIndexOf("o",15) vi) s2.substring(5,11) 	3
3C	How do you convert an array of strings to ArrayList?	2
4A	What is the significance of List Interface? Explain the Main Classes Implementing List Interface?	5
4B	Write the three constructors of Label class and explain their working.	3
4C	Differentiate paintMode with XORMode in graphics class?	2
5A	Explain the different layout managers with neat diagram.	5
5B	What is the use of a JScrollPane? Write the steps to include an image and a list in 1 x 2 grid of a scrollpane.	3
5C	Write Java code to create a BufferedReader object to read a string from the standard input device.	2