

Code No: 815BR

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD**MCA V Semester Examinations, June/July - 2018****MOBILE APPLICATION DEVELOPMENT****Time: 3 Hours****Max. Marks: 60****Note:** This question paper contains two parts A and B.

Part A is compulsory which carries 20 marks. Answer all questions in Part A. Part B consists of 5 Units. Answer any one full question from each unit. Each question carries 8 marks and may have a, b, c as sub questions.

PART - A**5 × 4 Marks = 20**

- 1.a) List out the challenges faced in the designing of mobile application and small computing devices. [4]
- b) Write the life cycle of MIDlet. [4]
- c) Describe Alert class and various type of alerts in J2ME. [4]
- d) What is ANY test? Write the rules for ANY test. [4]
- e) Describe the Connection class. [4]

PART - B**5 × 8 Marks = 40**

2. Give the detail account on cellular networks. [8]

OR

- 3.a) Explain how J2ME application balance the load between client and server.
- b) What is radio transmission and also describe the purpose of carrier signal in radio transmission. [4+4]

4. List the best practices to design J2ME application and explain briefly. [8]

OR

- 5.a) Describe Manifest and JAD files of J2ME application.
- b) With a neat sketch, elaborate the layers of J2ME architecture. [4+4]

6. Explain the key code and game code of canvas. [8]

OR

7. Write MIDP application to display mutable and immutable images on the form. [8]

8. Explain the steps to sort the mixed data type records in record enumeration and illustrate with an example program. [8]

OR

9. How the data is stored in the mobile? Explain in detail. [8]

10. Develop a MIDlet Application to login to HTTP Server from a J2ME Program and also read the data from HTTP server. [8]

OR

11. How do you perform the transmission in mobile application whenever the network is slow? And also design MIDP application to perform the transmission in this context. [8]