

Code No: 815BR

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD**MCA V Semester Examinations, December - 2019****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) Compare J2EE and J2SE applications. [4]
- b) What is JAR file? Explain briefly its attributes in J2ME. [4]
- c) Write the steps to determine the color attribute of a device in J2ME. [4]
- d) Explain briefly about types of JDBC drivers. [4]
- e) Describe HTTP protocol and its header attributes. [4]

PART - B**5 × 8 Marks = 40**

- 2.a) What are the challenges faced by mobile small computing industries? [4+4]
- b) Write about radio data networks. [4+4]
- OR**
- 3.a) What are the limitations of radio transmission? [4+4]
- b) Discuss about various profiles of J2ME. [4+4]
- 4.a) What is Midlet suite? Explain in detail. [4+4]
- b) [4+4]
- OR**
- 5.a) Explain J2ME architecture with suitable diagram. [4+4]
- b) Explain how traffic is controlled in networks in mobile technology. [4+4]
- 6.a) What is Alert class? Create J2ME application to give Alert Sound. [4+4]
- b) Discuss about clipping regions in Canvas class. [4+4]
- OR**
7. Elaborate Gauge class and implement user Interaction with Gauge class. [8]
- 8.a) What is record enumeration class? Explain it briefly. [4+4]
- b) Write the steps to read mixed data types from record enumeration. [4+4]
- OR**
- 9.a) What is save point? Explain it briefly. [4+4]
- b) Write J2ME application to search a simple data type in record store. [4+4]
10. Write J2ME application to read data from web server. [8]
- OR**
- 11.a) Explain How a process is transmitted as back ground process in J2ME applications. [4+4]
- b) Discuss about HTTP Connection in detail. [4+4]