

Code No: 117FM

**R13**

**JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD**

**B. Tech IV Year I Semester Examinations, November/December - 2016**

**MOBILE APPLICATION DEVELOPMENT**

**(Information Technology)**

**Time: 3 Hours**

**Max. Marks: 75**

**Note:** This question paper contains two parts A and B.  
Part A is compulsory which carries 25 marks. Answer all questions in Part A.  
Part B consists of 5 Units. Answer any one full question from each unit.  
Each question carries 10 marks and may have a, b, c as sub questions.

**PART- A**

**(25 Marks)**

- 1.a) What is setup box? [2]
- b) Write about J2ME configuration. [3]
- c) What is JAR and JAD files? [2]
- d) List the layers of J2ME architecture. [3]
- e) Describe form class. [2]
- f) Create an interactive Gauge. [3]
- g) List out JDBC Driver types. [2]
- h) Write the steps to establish database connection in JDBC. [3]
- i) List out different protocols to perform communication. [2]
- j) Explain about Socket Connection. [3]

**PART-B**

**(50 Marks)**

- 2.a) Discuss about multi tier web services and write the role of J2ME in multi tier web service.
- b) Discuss about personal digital assistances. [5+5]
- 3. Describe mobile radio networks detail. [10]
- 4. What is Midlet Suite and explain the life cycle of Midlet in detail. [10]
- OR**
- 5. Develop Midlet application to create and manipulate an instance of String Item object. [10]
- 6. Explain Item class in detail wit an example application. [10]
- OR**
- 7. Develop J2ME application to draw an arc and paint on Canvas. [10]
- 8. Explain record listener interface in detail with an example program. [10]
- OR**
- 9. Write a Java program to insert and delete rows using result set. [10]
- 10.a) Explain the procedure to establish HTTP Connection to communicate with server.
- b) Write the code segment and JAD file to read the data from the web server. [5+5]
- OR**
- 11. Explain URL rewriting and HTTP session techniques in detail with an example. [10]