

Code No: 156BW**JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD****B. Tech III Year II Semester Examinations, March - 2024****MOBILE APPLICATION DEVELOPMENT****(Common to CSE, IT, CSIT, CSE(CS), CSE(AI&ML), CSE(DS))****Time: 3 Hours****Max. Marks: 75**

- Note:** i) Question paper consists of Part A, Part B.
ii) Part A is compulsory, which carries 25 marks. In Part A, Answer all questions.
iii) In Part B, Answer any one question from each unit. Each question carries 10 marks and may have a, b as sub questions.

PART – A**(25 Marks)**

- 1.a) What is Dalvik VM in android run-time? [2]
- b) What are android manifest files? [3]
- c) How to use 'lint' to analyze layouts? [2]
- d) List out the features of android widget toolbox. [3]
- e) Discuss about 'Linkify' class. [2]
- f) What is the role of local broadcast manager? [3]
- g) What is "saved application UI state"? [2]
- h) Write the code snippet for shared preference screen. [3]
- i) Discuss the salient features of SQLite. [2]
- j) Create a sample code for "defining app search meta data". [3]

PART – B**(50 Marks)**

- 2.a) Illustrate the best practices for android programming.
 - b) What are different types android apps, which are used in Pubic domains? Explain. [5+5]
- OR**
3. Elaborate on Android App lifecycle. [10]
 4. Analyze about "radio, toggle buttons, check boxes, and spinners". [10]
- OR**
5. What are fragments? Explain about the process to create fragments, fragment states. [10]
- 6.a) How can "broadcasting events with Intents be possible"? Explain.
 - b) Write a pseudo code for broadcasting an intent. [5+5]
- OR**
- 7.a) How to resolve intent filters? Explain.
 - b) Discuss about "finding and using intents received within activity". [5+5]

- 8.a) Demonstrate about persistence storage in files.
b) How to create files and mention about reading data from files? [5+5]

OR

9. Summarize the step-by-step process for 'saving and retrieving data using shared preferences'. [10]

10. Construct the process for 'opening and creating database without SQLite open helper'. [10]

OR

- 11.a) How to add, delete, and update rows in SQLite DB? Explain.
b) Discuss about 'android DB design considerations'. [5+5]

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Used paper March-2024