

Code No: 137AN

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD**B. Tech IV Year I Semester Examinations, December - 2019****ANDROID 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 as sub questions.

PART – A**(25 Marks)**

- 1.a) List out a Android SDK features. [2]
- b) What is the use of string.xml? [3]
- c) What is the purpose of toggle buttons? [2]
- d) Distinguish between fragment and activity. [3]
- e) Define intent filter. [2]
- f) What is broadcast receiver? [3]
- g) Define persistent storage. [2]
- h) What is the use of shared preferences? [3]
- i) What is the use of download manager in android? [2]
- j) List out callback methods to get the current location. [3]

PART – B**(50 Marks)**

2. How to create AVD's? Explain the various types of android applications. [10]
OR
3. Discuss in detail about android application components. [10]
4. How to use spinners in android? Explain with an example. [10]
OR
5. What is fragments? Explain fragments life cycle. [10]
6. Explain about notifications in android with an example program. [10]
OR
7. What is intent? Explain the types of intents in android with example. [10]
8. Discuss in detail about content providers. [10]
OR
9. Create a user registration application that stores the user details in a database table. [10]
- 10.a) Explain the challenges when we use the location based services.
b) Describe the procedure to connect our device to internet resources. [4+6]
OR
- 11.a) How time picker is used to set an alarm? Explain.
b) Develop an alarm application that rings every Monday at 8 AM. [4+6]