

**R18**

**Code No: 156BW**

**JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD**

**B. Tech III Year II Semester Examinations, August/September - 2021**

**MOBILE APPLICATION DEVELOPMENT**

**(Common to CSE, IT)**

**Time: 3 Hours**

**Max. Marks: 75**

**Answer any five questions  
All questions carry equal marks**

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1. What is Android Virtual Device? How to create Android Virtual Device? Discuss about various types of android applications. [15]
2. Construct activity life cycle with a neat diagram. Also explain the different callback methods used in activity life cycle with coding snippet. [15]
3. What is spinner? How to create the spinner and its adapter in android? Discuss with an example. [15]
4. What are fragment states? Determine how to remove and replace fragments with fragment transactions. [15]
- 5.a) Determine how intents are used in Native Android applications to launch Activities and sub-Activities?
- b) What is Pending Intents? Identify the Usage of Intent Filters to Service Implicit Intents. [8+7]
6. Discuss in detail about creating and displaying notifications. [15]
7. How to create, save, restore and clear shared preferences? Explain with example. [15]
- 8.a) How to implement SQLite database? Explain with an example.
- b) Build a skeleton content provider implementation by using SQLiteOpenHelper to manage the database. [7+8]

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