

M.Sc. - II (Computer Science) (CBCS Pattern) Semester-IV  
**PSCST13 - Paper-I : Android Application Development**

P. Pages : 2

Time : Three Hours



**GUG/S/25/11348**

Max. Marks : 80

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- Notes :
1. All questions are compulsory and carry equal marks.
  2. Draw neat and labelled diagram wherever necessary.
  3. Avoid vague answer and write specific answers related to questions.

**Either :**

1. a) What is android? Explain their versions and applications. 8
- b) Explain the layers of Android in brief with suitable diagram. 8

**OR**

- c) What is Android Manifest file? Explain essential attributes of Android Manifest file. 8
- d) Define android emulator? What is the role of emulator. 8

**Either :**

2. a) Explain the following. 8
  - i) Action Bad
  - ii) Alarm Manager
  - iii) alert Dialog
  - iv) Fragment
- b) Develop an Android application to open new activity on Button click. 8

**OR**

- c) How to store data using content provider in android? Explain in detail. 8
- d) What is android toast and how to use it in android with example. 8

**Either :**

3. a) What are the different types of animation in android? Explain it. 8
- b) Explain in brief about: 8
  - i) Bluetooth Adapter
  - ii) Bluetooth Assigned Number.

**OR**

c) What is openly Embedded system? Explain how to create animations with Android's Graphics API. 8

d) What are the methods used to control audio recording in audio capture write its purpose. 8

**Either :**

4. a) Explain with suitable example of App widget. 8

b) Explain in brief API integration in android. 8

**OR**

c) Explain Android's Bluetooth capabilities in brief. 8

d) What is the use of Native development kit in android application? Explain the importance. 8

5. Solve an the questions.

a) Write about app package. 4

b) What is BROADCAST\_STICKY permission. 4

c) What is meant by shared preferences in Android? 4

d) Write a note on Localization. 4

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