

M.C.A. - II (2 Years) New CBCS Pattern Semester-III
PMCAT304A - Paper-IV Elective-I : Android Application Development

P. Pages : 2

Time : Three Hours



GUG/W/23/13650

Max. Marks : 80

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

Either:

1. a) Write in brief about open source. Explain the role of license in open source. **8**
- b) Write a program to build an android application to display “MCA is best” in center. **8**
(Write Java & XML code)

OR

- c) Write a detail note on Android SDK. **8**
- d) What are various kinds of Android components? Explain. **8**

Either:

2. a) What do you mean by services in Android? Explain in detail. **8**
- b) What do you mean by Registering permission an android application grants to other android application. **8**

OR

- c) What is Resource value? Explain different Resource value types in detail. **8**
- d) Explain the following. **8**
 - i) Android Manifest File
 - ii) Intent filter.

Either:

3. a) What is Android Graphics API? Explain with suitable example. **8**
- b) Write a program to implement tween animation and rotate the text in your android application (write Java and XML code). **8**

OR

- c) What is Relative layout? Write an application to demonstrate it's some attribute. **8**
- d) Write a note on four different Tweening transformation. **8**

Either:

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| 4. | a) | Write a program to show how to use Date picker control of ADK in your Android application (Write Java and XML code) | 8 |
| | b) | What is SQLite? Explain managing data using SQLite in brief. | 8 |

OR

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|-----------|------|--|----------|
| | c) | Write short note on. | 8 |
| | i) | Android's Network APIs. | |
| | ii) | Android's Telephony APIs. | |
| | d) | Develop an application that makes the use of database for login app. | 8 |
| 5. | | Attempt all the questions. | |
| | i) | Write history of Mobile software development. | 4 |
| | ii) | What are broadcasting intents? Explain. | 4 |
| | iii) | Explain in short about different drawing shapes. | 4 |
| | iv) | Explain Androids data and storage API. | 4 |
