Total No. of Questions : **16** ]　　　　　　[ Total No. of Printed Pages : **3**

# SEMC–413

## M.Sc. (IVth Semester) Examination, 2022
## COMPUTER SCIENCE

Paper – MCS–402 (a)

### (Android Programming)

*Time : 1½ Hours* ]　　　　　　　　　　　[ *Maximum Marks : **40***

*Note* :–　　The question paper contains three Sections.

|　　　　　　　　　　　**Section–A**　　　　**(Marks : 1 × 10 = 10)**

*Note* :–　　Answer all *ten* questions (Answer limit **50** words). Each question carries **1** mark.

|　　　　　　　　　　　**Section–B**　　　　**(Marks : 3 × 5 = 15)**

*Note* :–　　Answer any *five* questions by selecting at least *one* question from each Unit (Answer limit **200** words). Each question carries **3** marks.
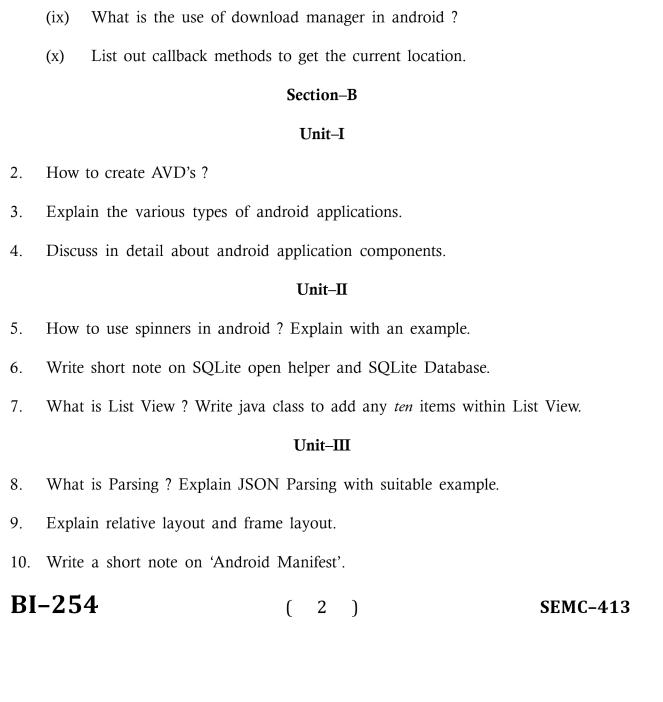
|　　　　　　　　　　　**Section–C**　　　　**(Marks : 5 × 3 = 15)**

*Note* :–　　Answer any *three* questions by selecting *one* question from each Unit (Answer limit **500** words). Each question carries **5** marks.

### Section–A

1.　Attempt all questions.

　(i)　List out a Android SDK features.

　(ii)　What is the use of string.xml ?

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(iii)    What is the purpose of toggle buttons ?

(iv)    Distinguish between fragment and activity.

(v)    Define intent filter.

(vi)    What is broadcast receiver ?

(vii)    Define persistent storage.

(viii)    What is the use of shared preferences ?

(ix)    What is the use of download manager in android ?

(x)    List out callback methods to get the current location.

## Section–B

### Unit–I

2.    How to create AVD's ?

3.    Explain the various types of android applications.

4.    Discuss in detail about android application components.

### Unit–II

5.    How to use spinners in android ? Explain with an example.

6.    Write short note on SQLite open helper and SQLite Database.

7.    What is List View ? Write java class to add any *ten* items within List View.

### Unit–III

8.    What is Parsing ? Explain JSON Parsing with suitable example.

9.    Explain relative layout and frame layout.

10.    Write a short note on 'Android Manifest'.

## Section–C

### Unit–I

11. What is Android Runtime ? Also explain Android Virtual Device.

12. What is Package ? Explain the various types of Packages in Java.

### Unit–II

13. Write a short note on 'Intent'.

14. Write a short note on 'Android Manifest'.

### Unit–III

15. Create android application to do addition of nay two numerical digits (xml file and Java Class only).

16. What are location based services available in android ? Explain them.