

Roll No. :

Total No. of Questions : 16]

[Total No. of Printed Pages : 3

SEM4017

M.Sc. (IVth Semester) Examination, 2021

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 the *ten* questions carries 1 mark each. The answer should not exceed **50** words.

Section-B

(Marks : 3 × 5 = 15)

Note :- Answer *five* questions by selecting at least *one* question from each Unit. Each question carries **3** marks. Answers should not exceed **200** words.

Section-C

(Marks : 5 × 3 = 15)

Note :- Answer *three* questions by selecting *one* question from each Unit. Each question carries **5** marks. The answer should not exceed **500** words.

Section-A

1. (i) What is Exception ?
- (ii) What is Java Interface ?

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SEM4017 P.T.O.

- (iii) What is XML ?
- (iv) What is SQLite Programming ?
- (v) What is GPS ?
- (vi) What is MMS ?
- (vii) What is .jar file ?
- (viii) What is SDK ?
- (ix) What is Adopter ?
- (x) What is Alarm ?

Section-B

Unit-I

- 2. Explain exception handling in Java.
- 3. Explain Android and Setting up Development Environment.
- 4. Write short note on Assets and Layouts and Drawable Resources.

Unit-II

- 5. Write short note on SQLite open helper and SQLite Database.
- 6. Explain view and also explain GridView and WebView.
- 7. What is ListView ? Write java class to add any *ten* items within ListView.

Unit-III

- 8. What is Parsing ? Explain JSON Parsing with suitable example.
- 9. Explain relative layout and frame layout.
- 10. Explain how is location services implemented in Android.

Section-C

Unit-I

- 11. What is Package ? Explain various types of Packages in Java.
- 12. What is multithreading ? Explain life-cycle of multithreading in Java.

Unit-II

13. What is Widget ? What are different types of widgets in Android ? How to create a widget on Android ? Explain with example.
14. Create android application to do addition of any *two* numerical digits (XML File and Java Class only).

Unit-III

15. What are location based services available in android ? Explain them.
16. What is Notification ? What are types of notifications available in Android ? How are notifications used in Android ? Explain.