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B.C.A. (Semester V)
EXAMINATION NOVEMBER 2022
Computer Science Elective
Mobile Application Development

[Duration : 2 Hours]

[Total Marks : 60]

Instructions:

- i). Question 1-6 are compulsory.
- ii). Figures to the right indicate full marks.

Q.1 A. Fill in the blanks:

(5 x 1 = 05)

- 1) _____ method called when the fragment's view is being removed.
- 2) _____ method returns the MIME type of the data in the content provider URI.
- 3) _____ service controls all aspects of the application lifecycle and activity stack.
- 4) _____ class is used to send a SMS message programmatically in android.
- 5) _____ enables you to embed a web browser in your activity.

B. Answer the following:

(5 x 1 = 5)

- 1) What is GridView?
- 2) Name 2 functions used to invoke another activity from the android project.
- 3) What is a Content Provider?
- 4) Name any 2 basic views available in android.
- 5) Name the permissions required in the manifest file to send and receive SMS messages.

Q.2 A. List the four units of measurement used in Android UI.

(02)

B. Differentiate between Native App and Cross-Platform App development approach.

(03)

C. Explain any five components present in android file structure.

(05)

- Q.3 A. Give two points of difference between onCreate() and onUpgrade methods of SQLiteOpenHelper Class. (02)
- B. State any three methods to set the properties of an android notification. (03)
- C. Explain the two techniques to handle changes in screen orientation. (05)
- Q.4 A. List any two requirement gathering techniques. (02)
- B. Explain any three parameters of CursorLoader() method. (03)
- C. Explain the ways to handle a click event of a button with the help of a code snippet. (05)
- Q.5 A. Give two points of difference between Views and ViewGroups. (02)
- B. State the uses of specialized fragments available in android. (03)
- C. Write a note on data persistence in android. (05)
- Q.6 A. List any two features of android studio. (02)
- B. Differentiate between Options Menu and Context Menu. (03)
- C. Explain the techniques of getting location data of an android device. (05)