H

TMC–502

M. C. A. (FIFTH SEMESTER)

END SEMESTER EXAMINATION, 2021-22

MOBILE APPLICATION DESIGN AND

DEVELOPMENT

Time : Three Hours

Maximum Marks : 100

Note : (i)   All questions are compulsory.

(ii)   Answer any *two* sub-questions among

(a), (b) and (c) in each main question.

(iii) Total marks in each main question are

twenty.

(iv) Each question carries 10 marks.

1.   (a)   Explain OHA in detail.   (CO1)

(b)   Illustrate Android Architecture with a neat

diagram.   (CO1)

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(c) Differentiate between Native and Hybrid App with examples. (CO1)

2. (a) Differentiate between JVM & DVM. (CO2)

(b) Explain fragment. Why do we use it ? Explain fragment lifecycle with a neat diagram. (CO2)

(c) Explain explicit intent with a proper example. (CO2)

3. (a) Explain with the help of a program how event handling is done using button view. (CO3)

(b) How can we play audio and video file through Android ? Explain. (CO3)

(c) Explain sensors. How does sensor work ? What are the different categories of sensors ? (CO3)

4. (a) Why do we use internal storage in Android ? Explain with the help of a program. (CO4)

(b) How is content provider used to access database in Android ? Explain with an example. (CO4)

(c) Discuss SQLite in context to Android Studio. (CO4)

5. (a) What is a web service ? How can we use web service in Android Studio ? Explain. (CO4)

(b) Write the steps for publishing Android App. (CO5)

(c) Discuss SMS programming in Android Studio. (CO5)