

PART – B (5 x 3= 15Marks)

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| 6. | Explain the creation of Android Virtual Devices (AVD) to run android program on an emulator. | CO1- R |
| 7. | Define Activity Stack. | CO2- R |
| 8. | Describe the Grid layout with sample xml code | CO3- R |
| 9. | What is AIDL? and list the supported data types. | CO4- R |
| 10 | Write a simple java code to capture video using intent. | CO5- R |

PART – C (5 x 16= 80Marks)

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| 11 | (a) Describe procedure involved in creation of a simple Android application project using Android Studio. | CO1- U | (16) |
| | Or | | |
| | (b) Reproduce the Android architecture with a neat diagram. | CO1- U | (16) |
| 12 | (a) Identify what are the additional libraries are added in android version 3.0 to support the fragments and also compare fragment lifecycle with the activity lifecycle. | CO2 -App | (16) |
| | Or | | |
| | (b) Develop an android menu application that changes the background color on selection of the menu options. | CO2- Ana | (16) |
| 13 | (a) The client required an eLearning mobile solution for facilitating communication and deliver training to its employees on updated company policies and product releases. The solution would bridge the gap between top management and trainers for keeping records of the training & educational processes. It should also have an intuitive user interface with user management and collaboration features like chat, video tutorial sharing, skill monitoring, Q&A forum and a logbook. The application should run flawlessly on various iOS, Android and Windows based devices | CO3-C | (16) |
| | Or | | |
| | (b) Create an android application that illustrates the pinch recognition. | CO3-C | (16) |

14 (a) Create a Simple audio player mobile application using android studio with basic controls like play, pause, forward, backward, next, previous, playlist and seekbar. CO4- Ana (16)

Or

(b) Discuss on the content providers of android. CO4- U (16)

15 (a) Develop a simple camera application to take pictures with added functionalities. CO5-C (16)

Or

(b) Create an application that illustrates the working of Google maps in android. CO5-C (16)

