

CLASS: MCA

15A /240

St. JOSEPH'S COLLEGE (AUTONOMOUS) TIRUCHIRAPPALLI – 620 002

SEMESTER EXAMINATIONS – APRIL 2015

TIME: 3 Hrs.

MAXIMUM MARKS: 100

SEM	SET	PAPER CODE	TITLE OF THE PAPER
IV	2013	13PCA4121	PROGRAMMING SMART DEVICES

SECTION – A

Answer all the questions:

20 x 1 = 20

Choose the correct answer:

1. Android 4.1.1 version operating system is known as _____.
a) Froyo
b) Eclair
c) Jelly Bean
d) Donut
2. DDMS stands for _____.
a) Dalvik Debug Monitoring Service
b) Device Debug monitoring Service
c) Dalvik Device Monitoring Service
d) None of these
3. A _____ is a transient message, meaning that it displays and disappears on its own without user interaction.
a) Widget
b) Toast
c) Kernel
d) Containers
4. In Android, if the user wants to replace alarm clock application, he/she will always use _____.
a) Stream_audio
b) Stream_video
c) Stream_music
d) Stream_mp3
5. An object created from a SQLiteDatabase that can be closed with _____.
a) SQLiteCloseable
b) SQLiteDatabase
c) SQLiteOpenHelper
d) SQLiteQueryBuilder

Fill in the blanks:

6. An application can initiate a broadcast by using an intent in any of context _____.
7. _____ intent announces application events system-wide.
8. Android used _____ optimized for use on low-power devices for storing data to flash memory.
9. The content resolver object communicates with the provider object, an instance of a class that implements _____.
10. _____ a convenience class that helps build SQL queries to be sent to SQLiteDatabase objects.

State True or False:

11. The content of the window is a view or a group of views derived from View or ViewGroup.
12. Android apps do not control their activity life time.
13. Android is starting to move towards ext4, another linux file system aimed more at desktops / notebooks to overcome the bottleneck of writing one process at a time.
14. Android SQLite system is a Lightweight database system.
15. The content resolver methods provide the basic “CRUD” (create, retrieve, update and delete) function of persistent storage.

Answer in one or two sentences:

16. Write the purpose of using application component “Content Providers”.
17. List down the various user interaction events.
18. Write down the drawback of YAFFS.
19. When a Video is initialized, what are all control can be made during playback?
20. What is a content resolver?

SECTION – B

Answer all the questions:

5 x 7= 35

21. a. Discuss the applications of Android with its components.

OR

b. Give a note on content providers and broadcast receivers.

22. a. Give a note on threading with its structure.

OR

b. Narrate the role of spin control selector as selection widget with a sample XML layout.

23. a. Explain the following basic widget controls with examples.

i) Text view ii) button iii) checkbox

OR

b. Create an android program for arithmetic operation.

24. a. With code format, explain how do audio and video files are played.

OR

b. List and explain the various multimedia MPEG standards that are used in a mobile device.

25. a. Discuss the procedure of creating a table and making data on SQLiteDatabase.

OR

b. Explain the importance of content providers with framework.

SECTION – C

Answer any THREE questions:

3 x 15 = 45

26. Give a detailed description on activities and services of Android operating system with frameworks.
27. Develop a mobile application program in Android to display your Biodata using all possible layouts.
28. Explain the basic components of android project. Also write a note on different types of android devices.
29. How to declare the android app with manifest.xml code? Explain in detail.
30. Give a detailed description on the role of OpenCORE in initial Android multimedia framework with neat diagram.
