KUMARAGURU
college of technology
character is life

B.E DEGREE EXAMINATIONS: MAY 2018

Regulation 2015

Sixth Semester

MECHATRONICS

U15MCE103**:** Introduction to Android Programming

COURSE OUTCOMES

CO1: Explain about the architecture of android programming

CO2: Explain about java and xml based coding

CO3: Use android studio components

CO4: Apply android studio function and layout for simple application

CO5: Develop systematically sequenced application using android studio.

C06: Create real time applications using hardware.

Time: Three Hours   **Maximum Marks: 100**

Answer all the Questions:-
PART A (10 x 1 = 10 Marks)

1. Matching type item with multiple choice code   CO2 [K_2]

List I	List II
A. Java Code	i. JAVAC
B. Java Compiler	ii. *.Class
C. Byte Code	iii. Base OS
D. JVM	iv. *.java

	A	B	C	D
a)	ii	i	iii	iv
b)	iii	iv	ii	i
c)	ii	iv	iii	i
d)	iii	i	ii	iv

2. Virtual function used in   CO1   [K_2]

   a) Encapsulation   b) Abstraction

   c) Polymorphism   d) Data Hiding

3. Which of the following is true about inheritance in Java? CO2 [K₃]

    1. Private methods are final.

    2. Protected methods are final.

    3. We cannot override private methods.

  a) 1,3   b) 1,4

  c) 1,2   d) 2,3

4. From API 11 the drag and drop framework includes which components CO3 [K₂]

  a) Drag event class   b) started

  c) Dropped   d) Ended

5. >>NotificationCompat.Builer mBuilder = new NotificationCompat.Builder(this) CO3 [K₃]

Assertion (A): NotificationCompat.Builder.build() is the used to set various notification properties.

Reason (R): Properties sets like small and large icons, title, priority.

  a) Both A and R are Individually true and   b) Both A and R are Individually true but
      R is the correct explanation of A   R is not the correct explanation of A

  c) A is true but R is false   d) A is false but R is true

6. Object that holds other View object to define the layout of the user interface CO4 [K₂]

  a) ViewGroup   b) LinerLayout

  c) TextView   d) UI Controls

7. Give the order of precedence for the following CO3 [K₂]

    1. Parentheses

    2. Addition

    3. Multiplication

    4. Division

  a) 2-3-4-1   b) 1-4-3-2

  c) 3-4-2-1   d) 4-1-3-2

8. Which of the following is not a valid Android resource file name? CO5 [K₂]

  a) Mylayout.xml   b) myLayout.xml

  c) My_layout.xml   d) Mylayout1.xml

9. Assertion (A): Upgrading SQlite the database from a lower version to higher version in CO5 [K₂]
android SQlite done using helper class

Reason (R): SQlite data base are prebuild in android studio.

a) Both A and R are Individually true and R is the correct explanation of A	b) Both A and R are Individually true but R is not the correct explanation of A
c) A is true but R is false	d) A is false but R is true

10. How do you join two notifications in android?   CO6 [K$_2$]

a) Give id for both notifications	b) Write notification code two times
c) It is not possible in android	d) Reading intent

PART B (10 x 2 = 20 Marks)
(Answer not more than 40 words)

11.	List the Android application framework.	CO1	[K$_2$]
12.	List out organize resource in android studio.	CO1	[K$_2$]
13.	Draw the fragment life cycle.	CO2	[K$_3$]
14.	State the concept of event listeners.	CO2	[K$_2$]
15.	Draw the activity life cycle diagram.	CO3	[K$_2$]
16.	What is android intent?	CO3	[K$_2$]
17.	What is the proper way of setting up an Android-powered device for app development?	CO4	[K$_2$]
18.	What is drawable folder in android?	CO5	[K$_2$]
19.	Draw the GridView in two dimensional.	CO5	[K$_3$]
20.	Outline the android platform supports three broad categories of sensor.	CO6	[K$_2$]

Answer any FIVE Questions:-
PART C (5 x 14 = 70 Marks)
(Answer not more than 300 words)

Q.No. 21 is Compulsory

21.	Classify the android application architecture with diagram and explain each block.	CO1	[K$_3$]
22.	Describe the all operator precedence rule function with example for android programming.	CO2	[K$_2$]
23.	Explain two types of indents in java with examples.	CO2	[K$_2$]
24.	Illustrate level in the importance hierarchy for an android process and Explain each process.	CO3	[K$_2$]

| 25. | Justify the client request and intent service using a flow chart? Explain each process. | CO4 | [K$_3$] |

| 26. | Classify the different ways to process a task in a background thread other than main user interface thread in android. Explain each process. | CO5 | [K$_3$] |

| 27. | Create an application structure that support different languages using android. Explain. | CO6 | [K$_3$] |

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