PSG COLLEGE OF ARTS & SCIENCE
(AUTONOMOUS)

BSc DEGREE EXAMINATION DECEMBER 2025
(Fifth Semester)

Branch – COMPUTER SCIENCE WITH DATA ANALYTICS

MOBILE APPLICATION DEVELOPMENT

Time: Three Hours   Maximum: 75 Marks

SECTION-A (10 Marks)
Answer ALL questions

ALL questions carry EQUAL marks   (10 × 1 = 10)

Module No.	Question No.	Question	K Level	CO
1	1	Find the virtual machine that optimizes processes running on Android-based devices. a) JVM b) SCM c) DVM d) ART	K1	CO1
	2	Classify the lifecycle method that is called when an activity becomes visible to the user. a) onCreate() b) onRestart () c) onResume() d) onStart ()	K2	CO2
2	3	Choose the method used to start a new activity and receive a result back from it. a) startActivity() b) startService() c) startActivityForResult() d) sendBroadcast()	K1	CO1
	4	Identify what happens when two or more apps declare the same intent filter for the same action. a) Intent Filter Collision b) Intent Filter c) Intent Collision Filter d) Intent Collision	K2	CO2
3	5	Which of the following layouts arranges child views in a single row or column? a) FrameLayout b) AbsoluteLayout c) LinearLayout d) TableLayout	K1	CO1
	6	Show the attribute that controls the visibility of a menu item in the Action Bar. a) android:visible b) android:icon c) android:onClick d) android:showAsAction	K2	CO2
4	7	Which view allows the selection of only one option among multiple choices? a) RadioGroup b) RadioButton c) MultipleRadionButton d) ToggleButton	K1	CO1
	8	Illustrate the type of specialized fragment used to display a small pop-up interaction window. a) ListFragment b) DialogFragment c) PreferenceFragment d) CustomFragment	K2	CO2
5	9	Select the feature used to embed web pages within an app. a) WebView b) GridView c) BrowserView d) ScrollView	K1	CO1
	10	Infer which property of ImageView controls how an image is resized or scaled to fit the view. a) android:scaleImage b) android:fitImage c) android:scaleType d) android:resizeMode	K2	CO2

SECTION - B (35 Marks)
Answer **ALL** questions
ALL questions carry **EQUAL** Marks   (5 × 7 = 35)

Module No.	Question No.	Question	K Level	CO
1	11.a.	Analyze the Android architecture with a neat diagram.	K4	CO
		(OR)		
	11.b.	Explain with an example how a Dialog window can be added to an application.		
2	12.a.	Simplify the steps on adding a Fragment dynamically to an Activity.	K4	CO3
		(OR)		
	12.b.	List the different ways to create an Intent for navigation.		
3	13.a.	Compare RelativeLayout and LinearLayout.	K5	CO2
		(OR)		
	13.b.	Defend the purpose of a ScrollView and list its limitation.		
4	14.a.	Assess the usage of TimePicker view with an example.	K5	CO3
		(OR)		
	14.b.	Interpret how ListView is different from a Spinner.		
5	15.a.	Construct an example showcasing the usage of GridView and explain it in brief.	K6	CO4
		(OR)		
	15.b.	Propose a solution for creating a photo album in an app using an ImageSwitcher view.		

SECTION -C (30 Marks)
Answer **ANY THREE** questions
ALL questions carry **EQUAL** Marks   (3 × 10 = 30)

Module No.	Question No.	Question	K Level	CO
1	16	Discover the use of an Activity in Android. Explain how an Activity can be designed to fit the theme of an application.	K4	CO2
2	17	Dissect and analyze the lifecycle of a Fragment and compare it with that of an Activity.	K4	CO3
3	18	Assess how you can adapt an Android UI layout to different screen orientations. Include both XML and Java-based techniques.	K5	CO2
4	19	ABC Hospital wants to create an app for their blood bank. What are the appropriate Views and View Groups you will use to create the registration page for this app? Justify your answer and support with an example.	K5	CO3
5	20	Discuss the process to create a menu in Android. Support with an example.	K6	CO5

Z-Z-Z   END