POORNIMA UNIVERSITY, JAIPUR
END SEMESTER EXAMINATION, 2023-2024 EVEN SEMESTER

BCA (Mobile) () - IV Sem () End Semester Examination,
BMFCCA4104: Introduction to Android Application Development

Time: 3 Hours   **Total Marks:** 60   **Min. Passing Marks:** 21/24/27   **Question Paper ID:** 001288

Instructions: Attempt all five questions. There is an internal choice either (a or b) in Q1 to Q5. Marks of each question or its parts are indicated against each question/part. Draw neat sketches wherever necessary to illustrate the answer. Assume missing data suitably (if any) and clearly indicate the same in the answer.
Bloom Level(BL): 1-Remembering, 2-Understanding, 3-Applying, 4-Analysing, 5-Evaluating, 6-Creating
Use of following supporting material is permitted during examination for this subject:

			Marks	BL	CO
Q1.	**(a)**	(i) What is android? Explain their versions and its applications? **(6 Marks)**	**12**	**1**	**1**
		(ii) Explain the procedure steps of Installing Android SDK Tools. **(6 Marks)**			
		(OR)			
	(b)	(i) Explain briefly about how you are understanding different activities? **(6 Marks)**			
		(ii) Discuss about fragments and Intents in Android. **(6 Marks)**			
Q2.	**(a)**	(i) Explain about - **(5 Marks)**	**12**	**1**	**2**
		a) Data Picker b) Time Picker			
		c) DateTime Picker d) ListView view e) Spinner View			
		(ii) Discuss customizing the action items and their applications. **(7 Marks)**			
		(OR)			
	(b)	(i) Briefly explain about Scroll View & Anchoring views. **(6 Marks)**			
		(ii) Difference between Table Layout and Frame Layout. **(6 Marks)**			
Q3.	**(a)**	(i) Explain – **(6 Marks)**	**12**	**1**	**3**
		a) Bound/ Unbound Services			
		b) Starting and Stopping Services			
		(ii) Write process of executing asynchronous tasks on separate threads. **(6 Marks)**			
		(OR)			
	(b)	(i) Explain about creating your own services in android development. **(6 Marks)**			
		(ii) Discuss about – a) sharing data in android b) Pre-creating the database. **(6 Marks)**			
Q4.	**(a)**	(i) Explain about – **(12 Marks)**	**12**	**1**	**4**
		a) creating DBAdapter Helper class.			
		b) choosing best storage option.			
		(OR)			
	(b)	(i) Write and explain different programming paradigms in Android. **(6 Marks)**			
		(ii) What are different Application components of Android? **(6 Marks)**			
Q5.	**(a)**	(i) Briefly discuss about content providers. **(6 Marks)**	**12**	**1**	**5**
		(ii) Write a brief description of different testing techniques available in Android? **(6 Marks)**			
		(OR)			
	(b)	Write and explain different testing tools and framework in Android. **(12 Marks)**			

End of Question Paper