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UNIVERSITY OF PETROLEUM AND ENERGY STUDIES
End Semester Examination, December 2018

Programme Name: B.Tech G&G, B.Tech TI	**Semester**	: V
Course Name : **Mobile App Development Using Android**	**Time**	: 03 hrs
Course Code : **CSIB476**	**Max. Marks : 100**	
Nos. of page(s) : 1		

Instructions:

SECTION A

S. No.		Marks	CO
Q 1	State four methods used to access internal storage of Android	5	CO4
Q 2	What is widget? State three advantages of having a widget?	5	CO2
Q 3	How different is android runtime to java runtime?	5	CO1
Q 4	Mention different ways service notifications notify. Explain toast.	5	

SECTION B

Q 5	What is Dialogs in Android? State different types of Dialogs explaining each.	10	CO2
Q 6	Explain views, view groups and activity. What impact can they have by the styles and themes? OR Define theme and the relation between styles and themes. Explain Style inheritance.	10	CO3
Q 7	Android is freely distributed and open source mobile operating system. How do you justify this in comparison with, explaining each component of its architecture?	10	CO1
Q 8	Explain android application components in detail.	10	CO2

SECTION-C

Q 9	Explain Context Menu and Contextual action mode. Explain Context life cycle with pictorial diagram.	20	CO3
Q 10	When do we need service over activity? Explain service life cycle and compare with activity lifecycle explaining each stage. OR Write code snippets for connecting to SQLite table, inserting data, retrieving data, deleting and modifying data through an android application.	20	CO2, CO4

Name of Examination (Please tick, symbol is given)	:	MID		END	⊟	SUPPLE	
Name of the School (Please tick, symbol is given)	:	SOE		SOCS	⊟	SOP	
Programme	:	B.Tech G&G, B.Tech TI					
Semester	:	Vth					
Name of the Course	:	Mobile Application Development Using Android					
Course Code	:	CSIB476					
Name of Question Paper Setter	:	Mr. T. Dharani Kumar					
Employee Code	:	40001555					
Mobile & Extension	:	8904084408					

Note: Please mention additional Stationery to be provided, during examination such as Table/Graph Sheet etc. else mention "NOT APPLICABLE":

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Note: - Pl. start your question paper from next page

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Nos. of page(s) : **2**		
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SECTION A

S. No.		Marks	CO

Q 1	1. Which of the following devices would you be able to implement android classes?
	     a. Mobile devices b. Laptops c. Desk Tops d. Super computers
	
	 2. Which of the following keyword is used to implement inheritance in an android application?
	     a. Packages b. import c. Imports d. extends
	
	 3. Which of these databases is inbuilt in the android application.
	     a. SQL server b. SQLite c. MySQL d. MySQL Server
	
	 4. IOS is an open source mobile operating system (True / False)
	
	 5. Which of the following method is called, very first on execution of an activity?
	     a. onStart() b. onCreate() c. onStartCommand d. onBind
		5	CO1, CO4

Q 2	For Android OS, name three IDE's available for the mobile development, with One line description for each IDE mentioned.	5	CO1
Q3	What is the use of Dialog and Alert Dialog?	5	CO3
Q4	What is style and style inheritance? Small code snippet for defining style	5	CO2

SECTION B

Q 5	Which tool is used to generate different icon types in android studio? Explain different icon types in relation with screen density.	10	CO2, CO3
Q 6	In which scenario would you require options menu in android app. Explain with real-time example.	10	CO3, CO4

	OR What is options menu, explain options menu life cycle with pictorial diagram.		
Q 7	Explain below a) Screen size b) Screen density and how android categorizes into different groups c) Manifest file & Layout file explain on these xml files in android.	**10**	**CO1, CO2, CO3**
Q 8	Explain below a) Explain dpi, dp b) Explain OHA, state few members of OHA c) Explain Nine-Patch drawable.	**10**	**CO1, CO2, CO3**
	SECTION-C		
Q 9	Write code syntax of mobile application storing persistent data to SQLite for the following: a) Establishing Connection to SQLite. b) Create a table "Customer Details" with fields as 1. Name 2. Mobile 3. Country 4. State c) Inserting data to "Customer Details". d) Display the details	**20**	**CO4**
Q 10	Explain content provider. List at least three methods used to access internal storage. Write code snippet to access internal storage data file in private mode. OR Explain Context Menu and Contextual action mode. Explain Context life cycle with pictorial diagram.	**20**	**CO1, CO4**