22617

	8242 Ho		70	Marks	Seat	No.							
Instructions $-$ (1)			(1)	All Questions are Compulsory.									
			(2)	Answer each	next main	Questi	on c	on a	ne	W	page	e.	
			(3)	Illustrate your necessary.	answers	with ne	at sl	cetc	hes	wł	nere	ver	
			(4)	Figures to the	right ind	icate fu	ll m	arks	5.				
			(5)	Assume suitab	ole data, it	f necess	ary.						
			(6)	Mobile Phone Communicatio Examination H	n devices	•							
											I	Ma	rks
1.		Attempt	any	<u>FIVE</u> of the	following	•							10
	a)	List any	four	features of an	ndroid ope	rating s	ystei	m.					
	b)	Describe	role	of Emulator.									
	c)	List vari	ious o	components of	android U	JI desig	n.						
	d)	List any	two	attributes of T	Toggle But	ton.							
	e)	Define s	ervic	e in android og	perating sy	ystem.							
	f)	Explain	two	methods of Go	ogle Map								
	g)	Write do activity.	own s	syntax to create	e an inten	t and st	tart	ano	ther				
2. Attempt			any	any <u>THREE</u> of the following: 12									
	a)	Explain	need	of android.									
	b)	Compare	e JVN	A and DVM. (any four	points)							
	c)	Explain	andro	oid security mo	odel.								
	d)	Draw an	nd ex	plain activity l	ife cycle.								

4.

3. Attempt any THREE of the following: a) Describe various installation steps of android studio and its environment. b) Explain scrollview with its attributes and with suitable example. c) Write significance of SQLite database in android. d) Explain importance or use of developer console. Attempt any THREE of the following: 12 a) Describe linear layout and frame layout with example. b) Write a program to create first display screen of any search engine using auto complete text view. c) What is fragment? Explain with example. d) Describe types of permissions used while developing android application. Develop a program to send an SMS. e) 5. Attempt any TWO of the following: a) Develop android application to enter one number and display factorial of a number once click on button.

- b) Write a program to capture an image using camera and display it.
- c) Write a program to show users current location.

6. Attempt any TWO of the following:

- Write a program to display the list of sensors supported by a) device.
- b) Write a program to send e-mail.
- Write a program to show five checkboxes and toast selected c) checkboxes using linear layout.

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