C. U. SHAH UNIVERSITY
Winter Examination-2021

Subject Name : Mobile Computing and Application Development

Subject Code : 4TE07MCA1   **Branch: B.Tech (CE)**

Semester: 7   **Date: 14/12/2021**   **Time: 02:30 To 05:30**   **Marks: 70**

Instructions:
(1) Use of Programmable calculator & any other electronic instrument is prohibited.
(2) Instructions written on main answer book are strictly to be obeyed.
(3) Draw neat diagrams and figures (if necessary) at right places.
(4) Assume suitable data if needed.

Q-1   **Attempt the following questions:**   **(14)**

a) Define cell.
b) Which component is called the heart of call routing process?
c) Write the full form of ISDN.
d) Define Cluster.
e) What is the role of AUC?
f) What is Mobile IP?
g) What is cell splitting?
h) Write the features of 4G technology.
i) Write the full form of IMEI.
j) What is the requirement of frequency reuse?
k) Name the languages supported for Android development.
l) Give the full form of TDMA.
m) What is Wi-Max technology?
n) How to call another activity in Android?

Attempt any four questions from Q-2 to Q-8

Q-2	**Attempt all questions**	**(14)**
A	Explain GSM Architecture with the help of figure including all the components in detail.	10
B	Write short note on Bluetooth.	4
Q-3	**Attempt all questions**	**(14)**
A	Differentiate between GSM and CDMA.	7
B	Write a note on VOIP.	7
Q-4	**Attempt all questions**	**(14)**
A	Describe the concept of Wireless LAN.	7

	B	Write a note on 5G technology.	**7**
Q-5		**Attempt all questions**	**(14)**
	A	Explain GPRS architecture in detail.	**10**
	B	Write a short note on Infrared.	**4**
Q-6		**Attempt all questions**	**(14)**
	A	Explain three tier Mobile Computing architecture.	**7**
	B	Explain handoff and handover of call with the help of examples.	**7**
Q-7		**Attempt all questions**	**(14)**
	A	Explain SMS architecture in detail.	**10**
	B	Explain SOC and AOC in brief.	**4**
Q-8		**Attempt all questions**	**(14)**
	A	Explain various attributes of TextView widget.	**7**
	B	Draw the diagram and explain Android activity life cycle.	**7**