

Enrollment No: \_\_\_\_\_

Exam Seat No: \_\_\_\_\_

# C.U.SHAH UNIVERSITY

## Summer Examination-2018

**Subject Name: Mobile Computing and Application Development**

**Subject Code: 4TE07MCA1**

**Branch: B.Tech (CE)**

**Semester: 7**

**Date : 22/03/2018**

**Time : 10:30 To 01:30**

**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.
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<b>Q-1</b>	<b>Attempt the following questions:</b>	<b>(14)</b>
a)	What is mobility?	1
b)	What is FDM?	1
c)	What is dwell time?	1
d)	What is handover?	1
e)	What is hopping sequence?	1
f)	What is multipath propagation?	1
g)	Define MSC.	1
h)	What does SGSN stand for?	1
i)	Which are the control channel groups in GSM?	1
j)	Define guard band.	1
k)	What are the types of spread spectrum?	1
l)	Does Android support other language than Java? If yes, give example.	1
m)	What is implicit intent in Android?	1
n)	How to call another activity in android?	1

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

<b>Q-2</b>	<b>Attempt all questions</b>	<b>(14)</b>
a)	What is Mobile IP? Explain Discovery, Registration and Tunnelling with Mobile IP.	7
b)	What is multiplexing? Explain FDM and TDM in details with one example of each.	7
<b>Q-3</b>	<b>Attempt all questions</b>	<b>(14)</b>
a)	Explain GSM architecture in detail.	7
b)	Compare Wi-Fi versus 3G and also discuss wireless LAN security issues.	7
<b>Q-4</b>	<b>Attempt all questions</b>	<b>(14)</b>
a)	Explain indirect TCP and snooping TCP in detail.	7
b)	Explain GPRS architecture in detail.	7



- Q-5      Attempt all questions      (14)**
- a) What kind of changes are needed in GSM to convert it into GPRS ? Explain applications of GPRS.      7
  - b) Explain SMMT and SSMO in SMS.      7
- Q-6      Attempt all questions      (14)**
- a) What is handoff and Roaming? Explain types of handoff in details.      7
  - b) Explain web view in Android application.      7
- Q-7      Attempt all questions      (14)**
- a) Explain Android application framework with their components.      7
  - b) Draw and explain Bluetooth protocol architecture.      7
- Q-8      Attempt all questions      (14)**
- a) Compare GSM and CDMA.      7
  - b) Explain hidden and exposed terminal problem in wireless LAN.      7

