

M. SC. (Computer Science) SEM – III (Choice Based Credit & Grade System) : SUMMER - 2019
SUBJECT : MOBILE TECHNOLOGIES

Day : Wednesday
Date : 24/04/2019

S-2019-1255

Time : 03.00 PM TO 06.00 PM
Max. Marks : 60

N. B. :

- 1) All questions are **COMPULSORY**.
 - 2) Figures to the right indicate **FULL** marks.
 - 3) Draw diagrams **WHEREVER** necessary.
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- Q.1** a) What is MAC? (07)
Explain: i) Hidden and Exposed terminals ii) Near and far terminals
- b) Explain handover in GSM. (08)
- OR**
- a) Explain the transition of mobile phase from 1G to 3G. (07)
- b) Explain the adhoc routing protocols in detail. (08)
- Q.2** A) Answer **ANY ONE** of the following: (08)
- a) State the goals, assumptions and requirements of mobile IP.
- b) Explain the GPRS system.
- B) Answer **ANY ONE** of the following: (07)
- a) Explain record stores, records and record enumeration for persistent storage.
- b) Explain mobile TCP with respect to fast retransmit/fast recovery and transmission/time out freezing.
- Q.3** Answer **ANY THREE** of the following: (15)
- a) Explain WAP architecture.
- b) State the pro's and con's of wireless messaging.
- c) Explain different UI controls.
- d) Explain the concept of radio subsystem.
- Q.4** Write short notes on **ANY THREE** of the following: (15)
- a) FDMA
- b) MMS
- c) Snooping TCP
- d) Reverse tunneling

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