

M. SC. (Computer Science) SEM – III (Choice Based Credit & Grade System) : WINTER - 2018

SUBJECT : MOBILE TECHNOLOGIES

Day : Monday
Date : 22/10/2018

W-2018-1053

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 are the main benefits of spread spectrum system? State the advantages of DSSS over FHSS. (08)

b) Explain the working of indirect TCP with necessary diagram. (07)

OR

a) Explain protocol architecture for GSM. (08)

b) Explain MMS with architecture and protocol framework. (07)

Q.2 A) Answer **ANY ONE** of the following: (08)

a) Explain flat hierarchical, geographic position assisted adhoc routing protocols.

b) Explain the GPRS system.

B) Answer **ANY ONE** of the following: (07)

a) What is WAP? Explain wireless datagram protocol.

b) Explain congestion control in mobile communication.

Q.3 Answer **ANY THREE** of the following: (15)

a) What is tunneling in mobile IP? Explain reverse tunneling.

b) Explain the classical mobile TCP improvements in detail.

c) What is radio subsystem? Explain.

d) Explain the various mobile phone technologies.

Q.4 Write short notes on **ANY THREE** of the following: (15)

a) MAC

b) Snooping TCP

c) IPv6

d) Persistent storage

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