Seat No.

SO-140

Total No. of Pages : 2

Shivaji University, Kolhapur
Oct. Nov. 2023 Examination
M.Tech (ETC) (Part-1) (Sem-I)
ELECTIVE-II (Mobile Computing)
Sub. Code :72047

Day and Date : Friday, 05-01-2024 **Total Marks : 70**

Time : 10:30 am to 01:30 pm

Instructions:

1. All questions are compulsory.
2. Figures to the right indicates full marks,
3. Draw diagrams wherever necessary.

Q.1 Answer any Two **(12)**

a) Explain signal propagation effects and multipath propagation.

b) Diagrammatically illustrate the spreading and despreading of signals to avoid narrow band interference

c) Explain UMT reference architecture, domains & Interfaces.

Q.2 Answer any Two **(12)**

a) Discuss handovernmechanism in GSM with diagram.

b) Explain various medium access control mechanisms

c) Draw & Explain Spreading of signals with DSSS

Q.3 Answer any Two. **(11)**

a) Discuss (i) Hidden & Exposed terminals. (ii) Far & Near terminals.

b) Explain UMT releases & standardization.

c) Draw & Explain architecture of GSM System.

[P.T.O.]

Q.4 Answer any Two **(12)**

a) With references to WLAN discuss,

(i) Advantages & Disadvantages

(ii) Design Goals.

b) Discuss diagrammatically the delivery of the packet from the mobile node (MN) When the MN has moved from home network to foreign network (FN).

c) Discuss (1) Snooping TCP (ii) Mobile TCP (iii) Fast retransmit / Fast Recovery

Q.5 Answer any Two **(12)**

a) Explain with diagram Infrastructure & Adhoc Networks.

b) Explain client initialization via DHCP.

c) Draw & Explain WAP push architecture with Proxy gate way

Q.6 Answer any Two **(11)**

a) Explain wireless datagram protocol.

b) Explain the basic three access mechanisms defined by IEEE 802.11

c) Draw WAPI.X Architecture indicating components & interfaces.

◆◆◆

10689