

MASTER OF SCIENCE (COMPUTER SCIENCE) (CBCS-2018 COURSE)
M.Sc. (Computer Science) Sem-III : WINTER- 2022
SUBJECT : MOBILE TECHNOLOGIES

Day : Thursday

Time : 02:00 PM-05:00 PM

Date : 29-12-2022

W-20055-2022

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) Explain the transition of mobile phone from 1G to 3G. **(07)**
 - b) Explain flat hierarchical, geographic position assisted adhoc routing protocols. **(08)**

OR

- a) What is MAC? Explain: **(07)**
 - i) Hidden and exposed terminals
 - ii) Near and far terminals
 - b) Explain the GPRS system with necessary diagram. **(08)**
- Q.2**
- A) Answer **ANY ONE** of the following **(08)**
- i) What is wireless transaction protocol? Explain WTP Class 0, WTP Class 1 and WTP Class 2 transactions.
 - ii) Explain hierarchical mobile IPv6. State its advantages and disadvantages.
- B) Answer **ANY ONE** of the following: **(07)**
- i) Explain the radio subsystem for GSM.
 - ii) Explain agent advertisement and agent solicitation methods used for agent discovery.

- Q.3** Answer **ANY THREE** of the following: **(15)**
- a) Explain snooping TCP. Also state its advantages.
 - b) Explain different UI controls.
 - c) Explain wireless session protocol with example.
 - d) Explain handovers in GSM

- Q.4** Write short notes on **ANY THREE** of the following: **(15)**
- a) MMS
 - b) TCP over 2.5| 3G wireless network
 - c) Persistent storage
 - d) CDMA