

Seat No. : _____

AP-122

April-2022

M.Sc. (CA & IT), Sem.-VIII

Mobile Computing

Time : 2 Hours]

[Max. Marks : 50

- Instructions :**
- (1) All Questions in Section – I carry **equal** marks.
 - (2) Attempt any **THREE** questions in Section – I
 - (3) Section – II is **COMPULSORY**.

SECTION – I

1. Write the following :
 - (A) What is the Multiple Access scheme ? Explain SDMA with diagram. 7
 - (B) Explain types of Antenna with Diagram. 7
2. Write the following :
 - (A) Explain mobile terminated call with diagram. 7
 - (B) Explain advantages and disadvantages of cellular systems. 7
3. Write the following :
 - (A) Explain the system architecture of GSM Network. 7
 - (B) What does high performance radio local area network mean ? 7
4. Write the following :
 - (A) Explain Indirect TCP in classical TCP improvements. 7
 - (B) Explain IP packet delivery. 7
5. Write the following :
 - (A) What is wireless application protocol in mobile computing ? 7
 - (B) What is phone gap ? Explain in brief. 7

SECTION – II

8

(Attempt any **Eight**)

- (1) Which is not types of communication devices ?
 - (a) fixed and wired
 - (b) fixed and fixed
 - (c) mobile and wired
 - (d) mobile and wireless
- (2) Fading of the received radio signals in a mobile communication environment occurs because of _____.
 - (a) Direct propagation
 - (b) Multipath Propagation
 - (c) Bi-path Propagation
 - (d) None of the above
- (3) Interference in cellular systems is caused by
 - (a) Two base stations operating in same frequency band.
 - (b) Two calls in progress in nearby mobile stations.
 - (c) Leakage of energy signals by non-cellular systems into cellular frequency band.
 - (d) All of the above
- (4) Full form of MAC is
 - (a) Media Access Control
 - (b) Media Access Communication
 - (c) Manage Authentication Control.
 - (d) None of them
- (5) Wireless networking uses what method as the media access method ?
 - (a) CSMA/CD
 - (b) CTS/RTS
 - (c) CSMA/CA
 - (d) CSCD/CA
- (6) Which method is used solve hidden terminal problem ?
 - (a) CDMA
 - (b) MACA
 - (c) FDMA
 - (d) ISMA
- (7) In _____, the chance of collision can be reduced if a station senses the medium before trying to use it.
 - (a) MA
 - (b) CSMA
 - (c) FDMA
 - (d) CDMA
- (8) How many types of signals are there ?
 - (a) 1
 - (b) 2
 - (c) 4
 - (d) 5
- (9) _____ effect is called Delay Spread.
 - (a) Multi path propagation
 - (b) GSM
 - (c) CDM
 - (d) TDM
- (10) The term TDM stands for _____.
 - (a) Time Division Multiplexing
 - (b) Transfer Multiplexing
 - (c) Tedious Division Multiplexing
 - (d) None of the above