

Roll No.

67218

MCA 5th Semester CBCS Scheme

(w.e.f. 2018-19)

Examination – May, 2019

MOBILE COMPUTING

Paper : 18MCA35DB2

Time : Three Hours] [Maximum Marks : 80

Before answering the questions, candidates should ensure that they have been supplied the correct and complete question paper. No complaint in this regard, will be entertained after examination.

Note : Attempt *five* questions in all, selecting *one* question from each Unit. Question No. 1 is *compulsory*. All questions carry equal marks.

- 1. (a) What should be the characteristic of mobile computing devices ? 2 × 8 = 16
- (b) What is database hoarding ?
- (c) Describe the significance of core, edge and access network.
- (d) What is the principle of TDMA system ?
- (e) Describe the variants of mobile computing.
- (f) Mention *one* advantage and *one* disadvantage of mobile computing.

67218-550-(P-4)(Q-9)(19)

P. T. O.

- (g) Mention *two* differences between 2G and 3G network.
- (h) What is called an attack in term of network security ?

UNIT – I

- 2. (a) What is the principle of CDMA ? How a particular user's data is decoded at the base station ? Explain it citing an example. 10
- (b) Represent GSM architecture diagrammatically. Describe the functions of the modules. 6
- 3. (a) Write briefly notes on : 8
 - (i) GPS
 - (ii) Mobile computing through internet
- (b) Give examples for five mobile computings applications. <https://www.haryanapapers.com> 8

UNIT – II

- 4. (a) List the entities of mobile-IP architecture. Briefly describe each of entities. 8
- (b) Explain infrastructure based and ad-hoc network architecture of IEEE 802.11 WLAN. 8
- 5. Give the comparison of various TCP advantage and disadvantages in wireless networking. 16

67218- (P-4)(Q-9)(19) (2)

- (a) What are the functions of authentication and encryption in GSM ? How is system security maintained ?
- (b) What are multicast routing protocols ?
- (c) Explain mobile payment models and security issues.

UNIT – III

- 6. (a) What are the advantages of hoarding the data at the mobile device ? 5
- (b) What is context aware and explain in detail about context aware computing ? 5
- (c) Define Qos and does internet provide Qos ? Justify your answer. 6
- 7. Explain the following selective tuning techniques : 16
 - (i) Temporal addressing
 - (ii) Broadcast Addressing
 - (iii) Index based method
 - (iv) Distributed index based method

UNIT – IV

- 8. (a) List the MANET routing protocols. Describe any two protocols in detail. 8
- (b) What are the security threats to a MAN ET ? Why a MANET faces greater security threats than a fixed infrastructure networks ? 8

- 9. (a) Explain destination sequence distance vector routing algorithm in MANETS. 8
- (b) Describe the properties of MANETS. 4
- (c) List the applications of MANETS. 4



https://www.haryanapapers.com

https://www.haryanapapers.com

https://www.haryanapapers.com

https://www.haryanapapers.com

Whatsapp @ 9300930012

Send your old paper & get 10/-

अपने पुराने पेपर्स भेजे और 10 रुपये पायें,

Paytm or Google Pay से

https://www.haryanapapers.com