

CS 131704 NR

Roll No. of candidate

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3/3/22

2021

MINA CHOWDHURY CENTRE FOR RESEARCH
(ICMIT & TIPS)
#20/2, Hatia, Chapra,
Kharwarh-781017

B.Tech. 7th Semester End-Term Examination

CSE

MOBILE COMPUTING

(New Regulation)

Full Marks – 70

Time – Three hours

The figures in the margin indicate full marks
for the questions.

Answer question No. 1 and any *four* from the rest.

1. Choose the correct option for the following questions : (10 × 1 = 10)
- (i) Which of the following usually stores all user-related data that is also relevant to GSM mobile systems?
- (a) VLR (b) HMR
(c) CMR (d) SIM
- (ii) Which of the following offers packet mode data transfer service over the cellular network?
- (a) TCP (b) GPRS
(c) GSM (d) None of the above
- (iii) Which one of the following enables us to use the entire bandwidth simultaneously?
- (a) TDMA (b) CDMA
(c) FDMA (d) All of the above

[Turn over

- (iv) Which of the following uses wireless as the mode of communication for transferring or exchanging data between various mobiles over a short-range?
- (a) Ad hoc computing (b) Mobile computing
(c) Bluetooth technology (d) None of the above
- (v) In a distributed system, a client sends the request, and the server provides _____
- (a) Data (b) Service
(c) Information (d) All of the above
- (vi) Mobile Computing allows transmission of data from one wireless-enabled device to another
- (a) Any device (b) Wired device
(c) Wireless-enabled device (d) None of the above
- (vii) Which of the following is a fundamental principle of wireless communication?
- (a) Electromagnetic waves (b) Microwaves
(c) Both (a) and (b) (d) None of the above
- (viii) When was the 2G communication introduced in the market?
- (a) 1982 (b) 1984
(c) 1986 (d) 1988
- (ix) Which of the following is supported data rates of 4G Networks?
- (a) 1024 kbps (b) 100 mbs
(c) 200 mbps (d) None of the above
- (x) Which of the following is considered as the heart of the Global Systems for Mobiles (or GSM)?
- (a) Networks Switching Sub System
(b) Operational Support Sub-system
(c) Base Station Subsystem
(d) None of the above

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2. (a) Define Data Dissemination. (5)
- (b) What are the different types of transmission modes? Explain them with the help of example. (10)
3. (a) Describe about context aware computing. What are different context types used in context aware computing. (5 + 5 = 10)
- (b) State the difference between guided and unguided media. (5)
4. (a) State the difference between MANET and wireless sensor network. (5)
- (b) What are the key features of radio wave? (5)
- (c) Discuss about security in wireless metropolitan area network (802.16). (5)
5. (a) Define mobile computing. Write its characteristics. (5 + 5 = 10)
- (b) What are the main concepts involved in mobile computing? (5)
6. Describe about Dynamic Source Routing and Ad-hoc On Demand Distance Vector Routing Protocol. (15)
7. Write short notes on : (3 × 5 = 15)
- (a) Multiplexing
- (b) GPRS
- (c) Handoff

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