OR

(b) With reference to Random Access Protocol, explain the following : (CO1, CO2)

(i) ALOHA and its types.

(ii) CSMA and its types

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TOE–811

B. TECH. (CSE) (EIGHTH SEMESTER)
MID SEMESTER
EXAMINATION, May, 2023

MOBILE COMPUTING

Time : 1½ Hours

Maximum Marks : 50

Note : (i) Answer all the questions by choosing any ***one*** of the sub-questions.

(ii) Each sub-question carries 10 marks.

1. (a) What do you mean by Wireless Communication ? Explain all the features of Wireless Communication. (CO1)

OR

(b) With respect to mobile and wireless communication, explain the following with the help of an example : (CO1)

(i) Mobile Station

(ii) Mobile Equipment

(iii) Base Station

P. T. O.

2. (a) What do you mean by Channel Allocation in Mobile Computing ? Explain how Frequency Division Multiple Access technique is different from Time Division Multiple Access Technique ? (CO1)

OR

(b) Using GMS can enhance the working and performance of medical sector. Justify the above statement using suitable explanation and examples. (CO1)

3. (a) Frame are the important aspect of Wireless Communication. Explain. What is the format of the Frame in IEEE 802.11 ? Explain with the help of an diagram.(CO2)

OR

(b) Wireless Application protocol plays an important role in data transfer through wireless communication. With respect to the above statement explain WAP Protocol Stack. (CO2)

4. (a) In mobile computing, for its efficient working some new protocols are required for controlling access to physical medium. Comment on the above statement by illustrating the design issues of MAC protocol. (CO2)

OR

(b) What do you mean by Data Broadcasting in Mobile Computing ? Explain he ways of operations of broadcasting. Also specify the difference between various categories of broadcasting. (CO2)

5. (a) Explain the following by specifying its advantages and disadvantages : (CO1, CO2)

(i) Fixed Channel Allocation

(ii) Dynamic Channel Allocation