R19

Code No: 864AD

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD
MCA IV Semester Examinations, July/August - 2021
MOBILE COMPUTING

Time: 3 Hours   Max.Marks:75

Answer any five questions
All questions carry equal marks

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1. Explain about the system architecture of a GPRS system with a neat sketch. [15]

2.a) Elaborate the Hidden and Exposed station problems in mobile environment.
  b) Explain about the Code Division Multiple Access technique. [7+8]

3.a) How a packet is delivered in Indirect TCP? Explain in detail.
  b) Explain about Generic Routing encapsulation. [8+7]

4. What is selective tuning and indexing? Explain different mechanisms of it. [15]

5.a) What is MANET? What are the characteristics of MANETs?
  b) How to pass messages using Dynamic Source Routing algorithm. [7+8]

6.a) Explain about the registration request header in mobile IP.
  b) Discuss in detail about IP tunneling mechanism. [7+8]

7. What is Data Cache Inconsistency? Enumerate various methods used for data cache consistency. [15]

8. Explain about one-to-many and many-to-many data synchronization mechanisms in mobile computing systems. [15]

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