

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

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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