

02/06/2015

QP Code : 8602

(3 Hours)

Total Marks: 100

- Instructions: - 1) Question No 1 is compulsory; solve any 4 questions from remaining 6 question.  
 2) Assume suitable data wherever necessary.  
 3) Figures to the right indicate full marks.

- Q 1) a) Explain packet flow in mobile IP, if two mobile nodes communicating and both are in foreign networks. What additional routes do packets take if reverse tunneling is required?  
 (10 Marks)
- b) Explain three cell and seven cell clustering for mobile wireless network used in cellular system.  
 (05 Marks)
- c) What are the additional functions in wireless ATM with respect to fixed ATM. Explain in brief.  
 (05 Marks)
- Q 2) a) Consider a mobile user who is migrating from a place to another place, provide him a seamless service by satellite system, also sketch the architecture.  
 (10 Marks)
- b) Name the main difference Adhoc Network and other networks what advantages do other network offers? Explain in detail with suitable example.  
 (10 Marks)
- Q 3) a) Explain handoff management techniques used in cellular system.  
 (10 Marks)
- b) What are the major difference between WAP 2.0 and WAP 1.x? What influenced the WAP 2.0 development?  
 (10 Marks)
- Q 4) a) What limits the number of simultaneous users in a TDM/FDM system compared to a CDM system? What happens to the transmission quality of connections if the load gets higher on the cell?  
 (10 Marks)
- b) Name basic applications of satellite communication and describe the trends. (10 Marks)
- Q 5) a) Why is routing in multishop adhoc networks complicated, what are the special challenges?  
 (10 Marks)
- b) What are mobile agents? Discuss their primary advantages over other approaches.  
 (10 Marks)
- Q 6) a) Apart from dropping packets due to a handover or higher bit error rates, the occurrence of lengthy and/or frequent disconnection is also a problem in mobile network. Explain, how Mobile TCP protocol overcomes this problem. Also list main advantages and disadvantages of this solution.  
 (10 Marks)
- b) Distinguish between HSCSD and GPRS? How is GPRS made possible over GSM? Explain?  
 (10 Marks)

(2)

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Q 7) Write short notes on any two.

(20 Marks)

- a) Wireless Telephony applications.
  - b) M-Commerce
  - c) Wireless Broadband
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**RJ-Con. 11844-15.**