

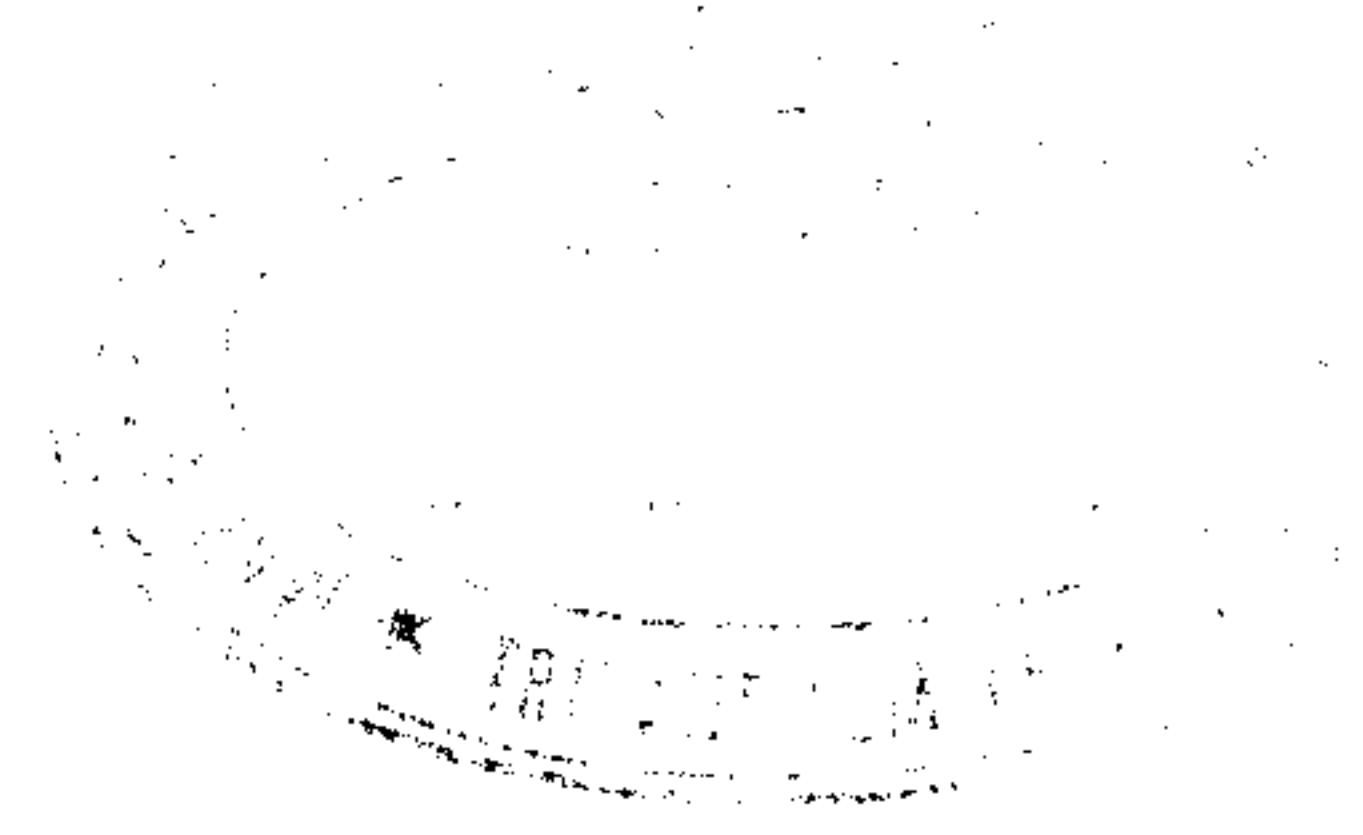


(Pages : 2)

**B – 2673**

Reg. No. : .....

Name : .....



**Eighth Semester B.Tech. Degree Examination, December 2016  
(2008 Scheme)  
08.805 (3) : MOBILE AND WIRELESS NETWORKS (R)  
(Elective – III)**

Time : 3 Hours

Max. Marks : 100

**PART – A**

Answer **all** questions.

1. Explain characteristics of Communication Devices.
2. State general formulae for sine wave of signal parameters and list out their parameters and its functions.
3. Explain multiplexing. List out different dimensions of multiplexing.
4. For simple CDMA, add random 'noise' to the transmitted signal (2, 0, 0, -2, +2, 0). Add, for example, (1, -1, 0, 1, 0, -1). In this case, what can the receiver detect for sender A and B respectively ? Now include the near/far problem. How does this complicate the situation ? What would be possible countermeasures ?
5. What are different enhancements of cdma2000 1x ?
6. Draw UMTS system architecture and list out their components.
7. Compare Infrared vs. Radio transmission.
8. State characteristics of TCP over 2.5/3G wireless networks.
9. List out components and interface of the WAP 1.x architecture.
10. Describe about WML Script with example. **(10×4=40 Marks)**

P.T.O.



**PART – B**

Answer **one** question from **each** Module.

**Module – I**

11. a) Explain spread spectrum. Discuss different types of spread spectrum techniques. 10  
b) What is MAC ? Explain about “Need for specialized MAC”. 10

OR

12. a) Explain about different types of modulation techniques. 12  
b) Considering duplex channels, what are alternatives for implementation in wireless networks ? What about typical wired networks ? 8

**Module – II**

13. a) Explain GSM architecture and its functionalities with neat diagram. 12  
b) Explain DECT system architecture model. 8

OR

14. a) Describe satellite system for global mobile telecommunications. 10  
b) Explain HIPERLAN and its phases. 10

**Module – III**

15. a) Explain mobile ad-hoc routing protocols. 8  
b) Describe WAP architecture with neat diagram. 12

OR

16. a) Describe about DHCP configuration. 10  
b) Explain wireless telephony applications. 10

**(3×20=60 Marks)**

---