JAYA GROUP OF INSTITUTIONS – THIRUNINRAVUR.

8TH Semester – B.E. / B.Tech.

INTERNAL ASSESSMENT-I (Model Examination – I)

Sub. Title   : Wireless Networks   Date   : 10.02.2015

Sub. Code : EC2043   Branch   : ECE

Duration   : 180 Minutes   Max. Marks: 100

Part A - (10 x 2 = 20) Answer all questions

1. List out the advantages and disadvantages of ALOHA.
2. What is RTS/CTS?
3. What is non-persistent mechanism?
4. List the four layers involved in SMS.
5. Is CDMA an access method or an air interface? Justify your answer.
6. What are VLR and HLR? Where they are physically located and why we need them.
7. What is AMPS?
8. What do you mean by NAM?
9. What do you mean by self-jamming?
10. What is near far problem?

Part B - (5 x 16 = 80) Answer the questions as per the choice.

11. (a) Explain in detail about fixed assignment for voice oriented networks.   (16)

Or

   (b) What is **Hand-off?** Explain their types in detail.   (16)

12. (a) Describe about random access for data oriented networks.   (16)

Or

   (b) Explain the detail of security and privacy needs in wireless communication.   (16)

13. (a) Explain in detail about **SMS in GSM.**   (16)

Or

   (b) Explain in detail about first generation analog cellular system.   (16)

14. (a) Draw the GSM architecture and explain in detail.   (16)

Or

   (b).What is the use of RAKE receiver concept in CDMA?   (16)

15. (a) Explain the detail about **INTERIUM STANDARD-95.**   (16)

Or

   (b). Explain in detail about **W-CDMA and CDMA 1x-DO.**   (16)