

20. (a) Explain the different security services provided by Bluetooth.

Or

- (b) Explain Link Manager specifications.
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M.Sc (CBCS) DEGREE EXAMINATION,
NOVEMBER, 2010.

Third Semester

Computer Science

MOBILE COMPUTING

(For those who joined in July 2008 and afterwards)

Time: Three hours

Maximum : 75 marks

PART A — ($10 \times 1 = 10$ marks)

Answer ALL questions.

1. What is a digital signal?
2. Define Virtual Channel.
3. What is transponder?
4. Define Cellular network.
5. What is the expansion for ADPCM?
6. What is the use of N channel?
7. Define spread spectrum.

8. What is the difference between single – cell and multiple – cell wireless LANs?
9. What is the expansion for ARQ?
10. Define flow specification.

PART B — (5 × 5 = 25 marks)

Answer ALL the questions, choosing either (a) or (b).

11. (a) Write a note on broadcast Radio.
Or
(b) Write a note on MAN.
12. (a) What are the three ways of categorizing communication satellites? Explain.
Or
(b) List the three ways of classifying satellite orbits and explain.
13. (a) List and briefly define DECT logical channels.
Or
(b) What are the IEEE 802.16 Fixed broadband wireless access standard? Explain.
14. (a) What is Kiviat graph? Discuss briefly.
Or
(b) List and briefly define LLC services.

15. (a) Write a short notes on radio specifications.

Or

- (b) How is it possible to combine frequency hopping and time division duplex? Discuss briefly.

PART C — (5 × 8 = 40 marks)

Answer ALL the questions, choosing either (a) or (b).

16. (a) Explain time division multiplexing.
Or
(b) Explain ATM logical connections.
17. (a) Explain the operation of cellular system
Or
(b) Explain the overviews of AMPS.
18. (a) Explain DECT protocol architecture.
Or
(b) Explain IEEE802.16 architecture.
19. (a) Explain the four application areas for wireless LANs.
Or
(b) Explain Narrowband Microwave LANs.