

(6 pages)

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B.Sc. (CBCS) DEGREE EXAMINATION,
APRIL 2014.

Sixth Semester

Computer Science – Main

Paper XI – COMPUTER NETWORK AND DATA
COMMUNICATION

(For those who joined in July 2008 to 2011)

Time : Three hours

Maximum : 75 marks

PART A — (10 × 1 = 10 marks)

Answer ALL the questions.

Choose the correct answer :

1. Method of error detection used in higher order layers
 - (a) Parity
 - (b) Block Sum Check
 - (c) CRC codes
 - (d) Checksum

2. Skin effect occurs in
 - (a) Twisted pair
 - (b) Coaxial cable
 - (c) Optical fibres
 - (d) None
3. The frame known as selective reject is
 - (a) Type 0
 - (b) Type 1
 - (c) Type 2
 - (d) Type 3
4. The functional unit that provided the basic functions of connection management
 - (a) Kernel
 - (b) Negotiated release
 - (c) Data exchange
 - (d) Half-duplex
5. _____ sublayer has the responsibility of knowing the rules of access to the medium and follows the rules.
 - (a) MAC
 - (b) LLC
 - (c) LAN
 - (d) None

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6. The _____ segment type is a twisted pair segment that uses four pairs of telephone grade twisted-pair wire.
- (a) T4 (b) TX
(c) FX (d) None
7. The channel allocation technique that has no data channel is
- (a) CDMA (b) CDPD
(c) DSMA (d) None
8. The wireless Session protocols currently consist of services suited for browsing applications known as
- (a) WSP (b) WSP/B
(c) WDP (d) None
9. _____ is intended for uses with higher data rate requirements.
- (a) BRI (b) PRI
(c) SRI (d) None
10. The reference configuration defined for narrow band ISDN can be used for _____
- (a) IDN (b) ISDN
(c) VSAT (d) B-ISDN

PART B — (5 × 5 = 25 marks)

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

Each answer should not exceed 250 words.

11. (a) Describe block error control.

Or

- (b) Explain about LOS and list the drawbacks.

12. (a) What are Service primitives of OSI? State the difference between unconfirmed and confirmed Service.

Or

- (b) Explain optimality Principle.

13. (a) Mention the features of FDDI.

Or

- (b) Sketch the different LAN topologies.

14. (a) Discuss the protocols for Wireless LAN.

Or

- (b) Write short notes on FDMA.



15. (a) Describe Integrated Digital Network.

Or

(b) Write the summary of functions of various layers of B-ISDN.

PART C — (5 × 8 = 40 marks)

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

Each answer should not exceed 600 words.

16. (a) List the various topologies used for constructing network with neat diagrams.

Or

(b) List the communication characteristics of coaxial cable.

17. (a) Discuss about optimality principle with sample diagram.

Or

(b) Explain Ethernet.

18. (a) Explain FDDI frame format in detail.

Or

(b) Explain FDDI features and its cabling requirement.

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19. (a) Explain the hardware and software architecture of Bluetooth.

Or

(b) Explain the VSAT topologies.

20. (a) Explain ISDN layers.

Or

(b) Discuss the application layer of TCP/IP.

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