(6 pages)	Reg. No.:		<ol><li>Protocol used by public and private networks.</li></ol>
Code No.: 1710	Sub. Code : R 3 CS 63		(a) X.20 protocol (b) X.25 protocol
0000110111110			(c) X.12 protocol (d) X.2 protocol
B.Sc. (CBCS) DEGREE EXAMINATION, APRIL 2011.		3.	The adaptive algorithm where only the local
Sixth Semester		information around the node is used to perform routing.	
Computer Science			(a) Centralized routing
Paper XI — COMPUTER NETWORK AND DATA COMMUNICATION			(b) Isolated routing
			(c) Distributed routing
(For those who joined in July 2008 and afterwards)			(d) None
Time: Three hours Maximum: 75 marks  PART A — (10 × 1 = 10 marks)  Answer ALL questions.  Choose the correct answer:		4. In MAC sublayer protocol, stations are classified according to their ————.	
			(a) token (b) priority
			(c) data (d) none
		5. No buffers are present in a ———.	
	Mode used when data to be transmitted is	o.	(a) Hub (b) Repeater
ALTERNATION OF THE PROPERTY OF	generated at random intervals		(c) Bridge (d) Router
(a) Synchronous			
(b) Asynchronous		<ol><li>The FDDI network can support data at a rate of</li></ol>	
(c) Duplex			(a) 1 Mbps (b) 10 Mbps
(d) None			(c) 100 Mbps (d) None
			Page 2 Code No.: 1710

7.	The wireless session protocols currently consist of services suited for browsing applications known as	PART B — $(5 \times 5 = 25 \text{ marks})$
	(a) WSP (b) WSP/B	Answer ALL questions, choosing either (a) or (b).
	(c) WDP (d) None	14. (a) Explain about LOS and list the drawbacks.  Or
8.	compared with terrestrial systems.	(b) Mention the concept of hierarchical networks.
	(a) Bluetooth (b) Infrared	12. (a) Explain Presentation layer.  Or
	(c) VSAT (d) None	(b) Explain the implementation of Ethernet.
9.	Each user in an — network is linked to the central office through a digital pipe.	18. (a) Mention the functions of MAC and LLC layers.
	(a) IDN (b) ISDN	Or (b) Write a note on FDDI network.
10.	(c) VSAT (d) None  In the datagram header format, the field used for fragmentation	1/4. (a) Compare ad hoc and infrastructure LANs.  Or  (b) Compare the VSAT topologies star with mesh
	(a) Version	network.
	(b) Identification (c) Length	15. (a) Discuss in detail about ISDN protocol architecture.
	(c) Length (d) All the above	Or (b) Discuss about ARP.
	Page 3 Code No. : 1710	Page 4 Code No. : 1710 [P.T.O.]

PART C —  $(5 \times 8 = 40 \text{ marks})$ 

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

- 16. (a) Discuss the following with block diagram
  - (i) Two-wire Open Lines
  - (ii) Twisted Pair.

Or

- (b) Discuss the differences between different switching methods.
- 17. (a) Explain session layer.

Or

- (b) Explain Packet layer.
- 18. (a) Write briefly about LAN architecture.

Or

- (b) Explain in detail about Gigabit Ethernet protocol architecture.
- 19. (a) Explain the architecture of the WAP gateway.

Or

(b) Discuss the VSAT technology.

Page 5 Code No.: 1710

20. (a) Explain ISDN layers.

Or

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

Page 6

Code No.: 1710