



RM-7731-R

B. E. IV (Sem. VIII) (ECC.) Examination

May / June - 2010

Informatics (Elective - I)

Time : 3 Hours]

[Total Marks : 100

Instructions :

(1)

નીચે દર્શાવેલ નિશાનીવાળી વિગતો ઉત્તરવહી પર અવશ્ય લખવી. Fillup strictly the details of signs on your answer book.	Seat No. :
Name of the Examination :	<input type="text"/>
<input type="text" value="B. E. 4 (Sem. 8) (ECC)"/>	<input type="text"/>
Name of the Subject :	<input type="text"/>
<input type="text" value="Informatics (Elective - 1)"/>	<input type="text"/>
Subject Code No. : <input type="text" value="7"/> <input type="text" value="7"/> <input type="text" value="3"/> <input type="text" value="1"/>	Section No. (1, 2,.....) : <input type="text" value="1&2"/>
Student's Signature	

- (2) Figures to the right indicates full marks to the question.
(3) Assume suitable data wherever necessary.

SECTION - I

- 1 (a) Write answers of the following. 10
(i) What is LMI? What it can provide?
(ii) What is VOFR?
(iii) Explain the use of FRAD in frame relay
(iv) Which cable is used in 1000 Base-Cx and which signal is used in the same?
(v) What is the max distance offered by 1000 Base - 5 x ?
(b) Explain operation of frame relay. 5
(c) Explain thick ethernet. 5
- 2 (a) Explain traffic control in frame relay. 8
(b) Explain contention based access using DCF. 8

OR

- 2 (a) Explain carrier sensing function and Network allocation vector. 8
(b) Explain FDDI in detail. 8
- 3 Write short notes on any two of the following : 14
(i) Fast Ethernet
(ii) Confidentiality and Access control for wireless N/w
(iii) Hidden mode prob in wireless N/w.

SECTION - II

- 4 Answer the following questions. 10
- (a) (i) In ATM n/w VPI is of ____ bits for NMI interface.
 - (ii) Framing and error control is a job of _____ layer in SONET
 - (iii) Specify channels used in BRI.
 - (iv) _____ interface is used to connect TE₂ with TA
 - (v) What is a role of LI (Length indicator) in AAL2 header.
 - (vi) What are pad bits in ATM cells?
 - (vii) Describe SONET layers.
 - (viii) What are data rates fo H Channel?
 - (ix) Which access methods are provided by B-ISDN?
 - (x) Line overhead of STS-I frame consists of _____ bytes.
- (b) Answer the following :
- (i) Explain ATM architecture with its addressing. 4
 - (ii) Explain 'S-interface' used in ISDN. 3
 - (iii) Draw and explain Device -Layer relationship in SONET. 3
- 5 Answer the following :
- (i) When AAL2 category is used during ATM transmission? Draw and explain its function in detail. 8
 - (ii) Explain with neat diagram functional grouping in ISDN. 7
- OR**
- 5 Answer the following :
- (i) Explain 'Address' and 'Information' field of LAPD in ISDN. 8
 - (ii) Explain octets of section overhead. 7
- 6 Answer any **three** from following : 15
- (i) B-ISDN Access method.
 - (ii) Batcher-Banyan Switch
 - (iii) Virtual circuit switching.
 - (iv) SONET Applications
 - (v) ATM LANE.
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