T.E-Sem-Y COMPUTER (CBGS)

Q.P. Code: 581301

		(3 Hours) [Total Marks: 8	0
N.	В. :	 Question No.1 is compulsory. Attempt any Three questions out of remaining questions. Make suitable assumptions whenever necessary. 	THE STATE OF THE STATE OF
1.	(a) (b) (c) (d)	Enumerate the main responsibilities of the data link layer. What are the different guided and unguided transmission media? Explain with examples the classification of IPV4 addresses. Compare and contrast a circuit switching and a packet switching network.	20
2.	(a)	Consider a message represented by the polynomial $M(x) = x^5 + x^4 + x$. Consider a generating polynomial $G(x) = x^3 + x^2 + 1$ (1101). Generate a 3 of CRC and show what will be the transmitted frame. How is error detected by CRC?	0
	(b)		0
3.	(a)	explain Distance Vector Routing. What are its limitations and how are they vercome?	0
2	(b)	What are Congestion Prevention Policies? Explain Congestion control in 1	0

- 4. (a) With the help of suitable example explain sliding window protocol with selective reject. Compare its performance to sliding window with Go-back-n technique.
 - (b) Explain with the help of suitable diagram TCP connection management and release.

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- 5. (a) Explain 1-persistent, p-persistent and 0-persistent CSMA giving strong and 10 weak points of each. (b) What is subnetting? Given the class C network 192.168.10.0 use the subnet 10 mask 255.255.255.192 to create subnets and answer the following:
 - (i) What is the number of subnets created?
 - (ii) How many hosts per subnet?
 - (iii) Calculate the IP address of the first host, the last host and the broadcast address of each subnet.
 - Write a short notes on the following (any two): 6.

20

- (i) SNMP and MIB
- (ii) Bluetooth Architecture
- (iii) Border Gateway Protocol

T.E. Sem- V. (CBGS) COMP

Q.P. Code : 581201

		(3 Hours)	Lotal Marks : EUD
N.B	i. :	 (1) Question No.1 is compulsory. (2) Answer any four questions from Q.No.2 to Q.No. (3) Figures to the right indicate full marks. (4) Assume suitable data if required. 	
1. ((a)	What is memory segmentation? State advantages of memory	segmentation 5
(b)	What is GDT? Explain structure of GDT.	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$
((c)	Explain integer pipeline of Pentium processor?	5 3 3 3 4 5 5 5 5 5
(d)	Briefly explain string instructions of 8086.	5
2. ((a)	Design 8086 based system for following requirements: (i) Clock frequency 5 MHz (ii) 512 KB RAM using 32 KB x 8 (iii) 256 KB ROM using 32 KB x 8	10
((b)		10
2	(0)		10
	(a) (b)		
4.		Explain, with near diagram, eache memory organization Pentium processor.	is supported by 10
-2	(b)) Draw and explain block diagram of Pentium processor.	10
500	(a)	Draw and explain block diagram of SuperSpare processor	or. 10
\$ 50° E	(b)	Explain interrupt structure of 8086.	10
6	Too	Explain interrupt structure of 8086. Write short note on :	
5.0°	000	(a) Mixed language programming	5
362	30	(b) Virtual 86 mode of 80386DX	5
10 mg	75	(c) Branch prediction logic	5
المي	X 2	A Control Parieters of 80386DY	5



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1 message

Hemant Vasaikar <vasaikarhb@spit.ac.in>

To: exam@spit.ac.in

Tue, May 23, 2017 at 4:23 PM

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To: vasaikarhb@spit.ac.in



University of Mumbai

Correction in Program Code:T2825 Subject Name:MICROPROCESSOR Q.P Code :581201

Read As

Total Marks 80

N.B:(2) Answer any Three questions from Q.No.2 to Q.No.6.

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