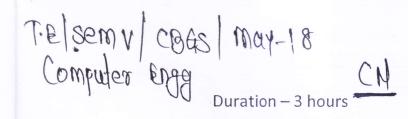
TE Sem-I Comp. CBGS. Mey 2018 50AD Q.P. Code: 37072 31-5-2018 (3 HOURS) [Total Marks: 80]

N.B.: (1) Question no. 1 is compulsory.

- (2) Attempt any three questions from remaining.
- (3) Assume suitable data wherever necessary.

		L. 10° . ST C. S
1. (a) Wh	at is Unified Modeling Language (UML)? Explain need of UML with	i (10)
(b) Exp	lain the development of SRS document for any suitable case study.	(10)
2. (a) Exp (b) Dra	lain different steps to draw DFD with suitable example. v and explain class diagram for car rental management system.	(10) (10)
3. (a) Exp (b) Wha	ain types of cohesion and coupling in software design. t is feasibility analysis? Explain payback analysis with example.	(10) (10)
casc	to identify use case and actors for use case diagram? Identify use s & actors and draw use case diagram for online book shopping. ain requirement gathering techniques used in system analysis.	(10)
(U) Willa	ain different elements of activity diagram with suitable example. is use of sequence diagram in system design? Draw sequence am for ticket vending machine.	(10) (10)
a) b	User Interface Design Component and deployment diagram Zachman framework System security and integrity masses	(20)
(b) Expl (b) Wha diagr Q6. Atter	ain different elements of activity diagram with suitable example. is use of sequence diagram in system design? Draw sequence am for ticket vending machine. The following (any two) User Interface Design Component and deployment diagram	



Q. P. Code: 24646

Maximum Marks - 80

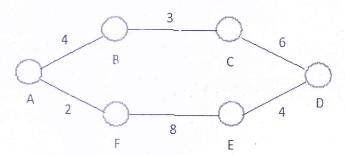
0 (1/2)

Note:

- 1. Question No 1 is compulsory.
- 2. Attempt any 3 questions from the remaining 5 questions.
- 3. Draw neat diagrams wherever necessary.

Q.No. 1 Explain in Brief:

- 20
- a. Explain the method to find number check bits required to correct single bit error for a 10 bit message and compute the check bits for 11100 00101.
- b. Encode the message 101111100001 using binary encoding, Manchester encoding and differential Manchester encoding
- c. Find the shortest path between A and D using Dijkstra Algorithm.



- d. What are the different world wide unique identifiers? Explain the components of Uniform Resource Locators.
- Q.No. 2(a) Explain how a strong Generator Polynomial is formed. Give the Algorithm 10 for computing the checksum.
- Q.No. 2(b) Explain any two collision free protocols 10
- Q.No. 3(a) Explain the reasons for congestion in a network. Explain open loop congestion control methods.
- Q.No. 3(b) Explain TCP IP reference model and compare it with OSI reference 10
- Q.No. 4(a) Explain how the value of 'n' is decided in an n bit sliding window protocol. Explain the advantages of Selective repeat over go-back n protocol.

2/semv/	ler enga CH	. P. Code: 2464
	Prove that the slotted ALOHA performs better than Pure ALOHA	10
Q.No. 5(a) Q.No. 5(b)	Compare Guided media w.r.t unguided media Compare Routing protocols RIP, OSPF and BGP	10 10
Q.No. 6	Give Short notes on any two a. DNS	20
	b. SNMP c. Sockets and Socket Programming	



T-2825/T.E. (computer) (sem-I) (R-2012) (CBSGS)

sub: Miczoprocessoz

Q. P. Code: 21318

Dote: 21/05/2018
Max Marks: 80 (Time: 3Hrs)

NR· 1	Ouestion	No 1	Compu	lcory

Solve any THREE from Q.2 to Q.6
 Assume suitable data whenever necessary with justification.

		, (2), (2), (3), (3), (3), (3), (4), (3), (4), (4), (4), (4), (4), (4), (4), (4	X
Q1.		Solve any FOUR.	
	(A)	Explain Memory banks for 8086 Processor	(5)
	(B)	Draw and Explain Floating Point Pipeline for Pentium Processor.	(5)
	(C)	Explain Multitasking and Protection for 80386 processor	(5)
	(D)	Explain Flag Register bits of 8086.	(5)
	(E)	Explain Virtual Mode (VM86) 80386 Processor.	(5)
Q2.	(A)	Explain Interrupt Structure of 8086 Processor.	(10)
	(B)	Explain PPI 8255 with block diagram.	(10)
Q3.	(A)	Draw and Explain write operation timing diagram for maximum mode.	(10)
	(B)	Explain Operating Modes of PIC 8259.	(10)
Q4.	(A)	Explain following instructions. DAA, AAA, XLAT, LAHF	(10)
	(B)	Explain Segment Descriptor of 80386 Processor.	(10)
Q5.	(A)	Explain Gate type of descriptors.	(10)
	(B)	Explain Data Cache architecture for Pentium Processor.	(10)
Q6.	(A)	Explain SPARC Processor with block diagram.	(10)
	(B)	Explain with block diagram PIT 8254	(10)
		XXX	