SAOOAD CBGS QP Code: 3328

(3 Hours)

[Total Marks: 80

N.B.	(1)	Question	no.	1	is	compulsory.
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(2) Attempt any three from the remaining.

1.	(a)	Describe why a system needs to be analyzed and what are the roles of a system analyst?	1ŭ
	(b)	Discuss the various steps involved in object oriented system design with appropriate diagrams.	10
2.	(a)	Write a short note on: Business Process Re-engineering and its activities	10
	(b)	What do you mean by SDLC? Describe the different phases of SDLC?	10
3.	(a)	Draw use case diagram for course registration system and write the use case specification for any two use cases	10
	(b)	Write a system proposal to keep track of inventory in manafacturing unit.	10
4.	(a)	Draw the DFD for order entry system (up to 2 levels) and describe the procedure for its validation.	10
	(b)	Draw the sequence diagram for login procedure to a system. Include all possible scenarios and draw its activity diagram also.	10
5.	(a)	Assume that the library management system is deployed in a client server architecture. Explain the various components and its deployment	10
	(b)	Explain the relationship of all 00 models with a diagram.	5
	(c)	Write a short note on: Traditional Approach to Design	5
5.	(a)	What are fraud risks and state its prevention techniques	10
	(b)	Explain the activities done during feasibility analysis. Give the structure of feasibility report.	10

## T-E. Sem. V - ((381) Comp) -) 25/05/201

**QP Code: 3323** 

(3 Hours)

Total marks: 80

## Note:

- Question No. 1 is compulsory.
- Attempt any Three questions out of remaining questions.
- Make suitable assumptions whenever necessary.

Make	suitable assumptions whenever necessary.	
Q 1:	<ul> <li>a) What are the design issues for the Layers?</li> <li>b) Differentiate between Aloha and Slotted Aloha.</li> <li>c) Explain in short different framing Methods.</li> <li>d) How does the Token Bucket Algorithm works?</li> <li>e) Why does the data link protocol always put the CRC in a trailer rather header?</li> </ul>	[4X5]
Q 2:	a) Explain Sliding window Protocol using Go Back-N technique. b) Describe the OSI Referance Model with a neat diagram.	[10] [10]
Q 3:	a) What is the function of IP Protocol? Discuss its header format. b) Discuss the quality of service parameters in computer network	
Q 4:	a) What is count to infinity problem in distance vector routing?D b) Explain three way handshake technique in TCP.	viscuss in detail . [ 10 ] [ 10 ]
Q 5:	a) Explain the need for DNS and describe the protocol functionin b) Explain Explain CSMA Protocols. Explain how collisions are had CSMA/CD.	
Q 6: W	rite short notes on the following.  a) Functions of Session Layer. b) Address Resolution Protocol (ARP). c) Berkeley Socket d) Differentiate between OSPF and BGP.	[5 X 4 ]

## J.E.(I)(CBGS) (computers) Microprocessor

19/5/15.

**QP Code: 3321** 

Time	3 hrs Max Marks 8	Max Marks 80		
Notes: 1. Q. 1 is compulsory				
	2. From remaining answer any 3 questions.			
	3. Draw neat diagram wherever necessary			
Q.1	A) Draw and explain timing diagram for write operation in minimum mode of 8086			
	B) List operating modes of 8253.	5.		
	C) Write down features of Pentium processor.	5		
	D) Write the instruction issue algorithm used in Pentium.	5		
Q.2	A) Explain protection mechanism used in 80386.	10		
	B) Write assembly language program for 8086 to reverse a string of 10 characters	s. 10		
Q.3	A) Design 8086 microprocessor based system with following specification	10		
	a) Microprocessor 8086 working at 8 MHz in maximum mode			
	b) 32 KB EPROM using 16 KB chips			
	c) 16 KB SRAM using 8 KB chips			
	Explain the design along with memory address map.			
	B) Explain branch prediction logic used in Pentium.	10		
Q. 4	A) i. Explain different data transfer modes of 8237 DMA controller.	05		
	A) ii. Explain Interfacing of 8259 with 8086 in minimum mode.	05		
	B) Differentiate between real mode and protected mode.	10		
Q. 5	A) Compare 8086, 80386 and Pentium.	10		
	B) Draw architecture of Super SPARC processor and explain in short.	10		
Q. 6	Write note on any 4.	20		
	a) Data cache organization of Pentium.			
	b) State use of control flags of 8086			
	c) Data types supported by SPARC processor			
	d) Advantages of memory segmentation in 8086.			
	e) Mode 1 of 8255 for input operation			