#### ANNAMACHARYA INSTITUTE OF TECHNOLOGY & SCIENCES:: RAJAMPET (AUTONOMOUS)

## III B. Tech. I Semester Regular Examinations, January 2014 Information Storage Management

(IT)

Time: 3 hours

Max Marks: 70

Answer any FIVE Questions from the following All questions carry equal marks (14 Marks each)

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1.		Discuss about				
		a. Client-Server Architecture in E-Commerce	7M			
		b. Generic Frame work for E-Commerce	7M			
2.		Discuss about various Mercantile Models from Merchant's Perspective				
3.	a)	a) Discuss the possible Risks in Electronic Payment System				
	b)	Give summary of Smart Cards in Electronic Payment System	7M			
4.		Discuss the various EDI Applications in Business	14M			
5.	a)	a) Discuss about Customization and Internal Commerce				
	b)	Discuss about Supply Chain Management	7M			
6.		Write short notes on				
		a. Concerns for Mobile Enterprise	7M			
		b. Wireless WAN's in E-Commerce	7M			
7.	a)	Discuss about the types of Digital documents in brief	7M			
	b)	Write a detail notes on advertising on the Internet for E-Commerce	7M			
8.	a)	How Information Filtering can be done? Explain	7M			
	b)	Briefly discuss about Electronic Yellow Pages	7M			

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#### Code: 1G355

# ANNAMACHARYA INSTITUTE OF TECHNOLOGY & SCIENCES :: RAJAMPET (AUTONOMOUS)

## III B. Tech. I Semester Regular Examinations, January 2014

## Microprocessors and Interfacing

(Common to CSE & IT)

Time: 3 hours

Max Marks: 70

Answer any FIVE Questions from the following All questions carry equal marks (14 Marks each)

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1.	a)	Classify the registers in 8086 as per their function and explain in detail.	
	b)	Discuss the differences between maximum and minimum mode.	4M
2.	a)	Give the importance of each field in the instruction format of 8086.	4M
	b)	Explain different addressing modes in 8086.	10M
3.	a)	Give the importance of latches and buffers in interfacing I/O devices.	4M
	b)	Develop the circuit to interface A/D circuit with 8255 and write suitable alp program.	10M
4.	a)	Differentiate SRAM and DRAM.	4M
	b)	Design Interfacing circuit of four 16K bytes of RAMs to microprocessor 8086.	10M
5.	a)	Explain different data transfer methods.	8M
	b)	Give the 8086 interrupt structure.	6M
6.	a)	Differentiate synchronous and asynchronous data transfers.	4M
	b)	Write a program to transmit the message "COLLEGE" using 8251 USART.	10M
7.	a)	Discuss the features of 80386.	8M
	b)	Differentiate real and protected mode.	6M
8	• .	Explain 8051 architecture with suitable diagram.	14M

# ANNAMACHARYA INSTITUTE OF TECHNOLOGY & SCIENCES :: RAJAMPET (AUTONOMOUS)

## III B.Tech. I Semester Regular Examinations, January 2014 Software Engineering

(IT)

Time: 3 hours

Max Marks: 70

Answer any FIVE Questions from the following All questions carry equal marks (14 Marks each)

\* \* \* \* \*

1.	a)	Compare and contrast PSP and TSP	8M
	b)	Discuss the evolving role of software	6M
2.	a)	Describe the phases of unified process model.	8M
	b)	Write about aspect oriented software development.	6M
3.	a)	Explain the significance of feasibility study.	7M
	b)	Discuss in detail data models.	7M
4.	a)	How to translate an analysis model into the design model? Explain.	6M
	b)	Discuss briefly transform mapping.	8M
5.	a)	What is cohesion? Discuss various types of cohesion.	7M
	b)	Describe briefly the golden rules for user interface design.	7M
6.	a)	Discuss the testing strategies for object oriented software.	7M
	b)	Explain the process of debugging.	7M
7.	a)	Describe the metrics for software quality.	6M
	b)	Why risk management is necessary? Discuss the activities in risk management.	8M
8.	a)	Give the minimum set of guidelines for formal technical reviews.	7M
	b)	Write a note on ISO 9000 quality standards.	7M

# ANNAMACHARYA INSTITUTE OF TECHNOLOGY & SCIENCES :: RAJAMPET (AUTONOMOUS)

## III B. Tech. I Semester Regular Examinations, January 2014 Unix Programming

(IT)

Time: 3 hours

Max Marks: 70

Answer any FIVE Questions from the following All questions carry equal marks (14 Marks each)

\* \* \* \* \*

1.	a)	Differentiate between Unix and Microsoft Windows operating systems? How BSD Unix differs from AT&T Unix? Give historical developments of Unix?			8M	
	b)	What is the purpose	e of Unix shell? Desc	cribe three phases of U	nix interactive session?	6M
2.	a)	Explain following Unix commands with examples?				
	•	i). chmod	ii). mount	iii). uniq	iv). tr	8M
	b)	Explain about seve	n types of files recog	gnized by Unix with ex	amples?	6M
3. a) What is command substitution? Explain about command substitution process examples?			abstitution process with	8M		
	L)	•	to count observation		-0	
		-	•	words and lines in a fil		6M
4.	a)	Define sed utility? example?	What are two forma	ats of sed? Explain sed	execution process with	6M
	b)	Write a sed script to	o continuously copy	two lines and delete the	ird of a file?	8M
5.	a)	Explain about diffe	rent awk output state	ements with examples?		8M
	b)	Write an awk script	to add a blank line a	after each line in a file?		6M
6. a) What are the stratup scripts in		p scripts in Korn she	ll? Describe Korn shell	startup process?	8M	
	b)	Write a Korn shell	script to display Fibo	onacci series?		6M
7.	a) Explain C shell command execution steps with an example?				8M	
	b)	Write a C shell scri	pt to find greatest co	mmon divisor of two in	ntegers?	6M
8.		What is system call? Explain following system calls with examples?				
		i). open	ii). read	iii). lseek	iv). fstat	14M

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# ANNAMACHARYA INSTITUTE OF TECHNOLOGY & SCIENCES :: RAJAMPET (AUTONOMOUS)

# III B.Tech. I Semester Regular Examinations, January 2014 Automata and Compiler Design (IT)

Time: 3 hours

Max Marks: 70

Answer any FIVE Questions from the following All questions carry equal marks (14 Marks each)

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1. Construct minimized DFA for the regular Expression 10 + (0 + 11) 0\* 1 14M

2. Construct Predictive parsing table for the following grammar.

 $E \rightarrow E + T/T$   $T \rightarrow T * F/F$  $F \rightarrow (E)/id$ 

14M

3. Construct LALR Parser for the following:

S→CC

 $C \rightarrow cC/d$ 

14M

4. a) Generate the three address code for the following program fragment:

while(a<c and b>d)

do

if a=1 then c=c+1

else

while a<=d

do

a=a+3

7M

b) Draw syntax tree for the arithmetic expression a \* (b + c) - d/2. Write the given expression in postfix form.

7M

5. a) Differentiate between Structural Equivalence and Name Equivalence.

7M

b) What are the specifications for a simple Type Checker?

7M

6. What are advantages and disadvantages of different data structures used in organizing a symbol table?

14M

7. Explain principle sources of optimization.

14M

8. Generate the code for following statements for the target machine (target machine is a byte addressable machine with 4 bytes to a word and N general purpose registers).assuming all variables are static. Assume 3 Registers are available.

- (a) X=a[I+1]
- (b) a[I]=b[c[I]]
- (c) a[I][J]=b[I][K]\*c[K][J]
- (d) a[I]=a[I]+b[J]

14M



# ANNAMACHARYA INSTITUTE OF TECHNOLOGY & SCIENCES :: RAJAMPET (AUTONOMOUS)

## III B. Tech. I Semester Regular Examinations, January 2014 Computer Networks

(Common to CSE & IT)

Time: 3 hours

Max Marks: 70

Answer any FIVE Questions from the following All questions carry equal marks (14 Marks each)

\* \* \* \*

1.	a)	List out the categories of Network Hardware? Explain any two in detail?	7M
	b)	Explain about OSI Reference Model with neat sketch?	7M
2.	a)	Explain about i)Magnetic Media ii) Fiber Optics	7M
	b)	Discuss about the structure of the PSTN?	7M
3.	a)	Explain Goback N sliding window protocol?	7M
	b)	Write short notes on different Framing techniques?	7M
4.	a)	Discuss about carrier sense Multiple Access Protocols?	7M
	b)	Explain IEEE 802.11 Frame structure?	7M
5.	a)	Explain about Shortest path routing algorithm?	7M
	b)	Explain about choke packets?	7M
6.	a)	Explain about IPv4 protocol Frame format?	7M
	b)	Discuss about Token Bucket algorithm?	7M
7,	a) ,	Describe the services provided by transport layer to above layers.	7M
	b)	Explain about Flow control and Buffering in Transport layer?	7M
8.	a)	Write short notes on Electronic Mail?	7M
	<b>b</b> )	Explain about WWW?	7M

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