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II BTECH. I Sem. (R18) I-Mid Examination

COMPUTER ORGANIZATION and ARCHITECTURE (CSE)

H.T.No.:

Note: Answer Any _TWO_ Questions. Each Question Carries 5 _marks_.

Q.No	Question	Marks	Blooms Level	COs
1	Explain in detail about Complete Computer Description with flow chart?	5	2	CO1
2	Explain about Control Memory and Micro Program example with a neat diagram?	5	2	CO1
3	Write an Assembly Language Program for 8-Bit Subtraction and 8-Bit Multiplication?	5	1	CO2
4	Explain in detail about Minimum and Maximum Mode System And Timings Of 8086? With Timing Diagrams?	5	3	CO3

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II BTECH. II Sem. (R18) I-Mid Examination

DATA BASE MANAGEMENT SYSTEM (CSE)

H.T.No.:

Note: Answer Any _TWO_ Questions. Each Question Carries 5 _marks_.

Q.No.	Question	Marks	Blooms Level	COs
1	Explain the concept of view with examples? How a view can be altered or destroyed.	5	1	CO1
2	Explain the various key constraints. How to enforce integrity constraints.	5	2	CO2
3	Explain the additional features of the ER model?	5	2	CO2
4	The following are the relations. Using this relations solve the query by Relational Algebra.	5	3	CO3

Sailor

Sid	Name	Rate	age
22	Dustin	7	45.0
29	Brutus	1	33.0
31	Lubber	8	55.5
32	Andy	8	25.5
58	Rusty	10	35.0
64	Horatio	7	35.0
71	Zorba	10	16.0
74	Aoratio	9	35.0
85	Art	3	25.5
95	bob	3	63.5

Boats

Bid	Boat name	color
101	Interlake	Blue
102	Interlake	Red
103	Clipper	Green
104	marine	red

Reserves

Sid	Bid	day
22	101	10/10/98
22	102	10/10/98
22	103	10/08/98
22	104	10/09/98
31	102	11/10/98
31	103	11/06/98
31`	104	11/12/98
64	101	09/05/98
64	102	09/08/98
74	103	09/08/98

a. Find the name of sailors who have reserved boat 103.

b. Find the names of sailors who have reserved a red boat

c. Find the name of sailors who have reserved at least one boat.

d. Find the colors of boats reserved by lubber

e. Find the sid' of sailors with age over 20 who have not reserved a red boat.

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II BTECH. II Sem. (R18) I-Mid Examination

OPERATING SYSTEMS (CSE)

H.T.No.:

Note: Answer Any _TWO_ Questions. Each Question Carries 5 _marks_.

Q.No	Question	Marks	Blooms Level	COs
1	Explain the difference between **User Level Thread and Kernel Level Thread**?	5	1	CO1
2	Explain a) Readers Writers problem b) Explain Types of System Calls?	5	2	CO1
3	Explain **FCFS Scheduling** algorithm and calculate the a) Waiting Time b) Average Waiting Time c) Turnaround Time d) Average Turnaround Time for the given values <table><tr><td>Process</td><td>Burst Time</td><td>Arrival Time</td></tr><tr><td>P1</td><td>9</td><td>0</td></tr><tr><td>P2</td><td>4</td><td>1</td></tr><tr><td>P3</td><td>5</td><td>2</td></tr><tr><td>P4</td><td>7</td><td>3</td></tr><tr><td>P5</td><td>3</td><td>4</td></tr></table>	5	3	CO2
4	Explain Virtual Memory with neat diagram?	5	2	CO3

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III BTECH. I Sem. (R18) I-Mid Examination

FORMAL LANGUAGES AND AUTOMATA THEORY (CSE)

H.T.No.:

Note: Answer Any _TWO_ Questions. Each Question Carries 5 _marks_.

Q.No	Question	Marks	Blooms Level	COs
1	Construct a finite automaton accepting all strings over {0, 1} having even number of 0's and even number of 1's.	5	1	CO2
2	Construct NFA for (0 + 1)*101 and Convert to DFA.	5	3	CO3
3	Define Pumping Lemma for Regular Languages. Write the applications of pumping lemma for regular languages.	5	2	CO1
4	a) Write the regular language generated by regular expression (0+1)*001(0+1)* b) Write transition diagram for DFA to accept exactly one a defined over an alphabet ∑= {a,b} Write DFA for odd number of 1's	5	3	CO3

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II BTECH. II Sem. (R18) I-Mid Examination

BUSINESS ECONOMICS AND FINANCIAL ANALYSIS (CSE)

H.T.No.:

Note: Answer Any _TWO_ Questions. Each Question Carries 5 _marks_.

Q.No	Question	Marks	Blooms Level	COs
1	Define Business cycle? Appraise each phase of Business Cycle.	5	1	CO1
2	What do you mean by Inflation? Identify the role of money supply in inflation	5	2	CO1
3	What is Supply Function? Illustrate supply function and its determinants.	5	2	CO2
4	Discuss about Returns to scale.	5	1	CO3

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III BTECH. II Sem. (R18) I-Mid Examination

COMPILER DESIGN (CSE)

H.T.No.:

Note: Answer Any _TWO_ Questions. Each Question Carries 5 _marks_.

Q.No	Question	Marks	Blooms Level	COs
1	What are the various phases of the compiler? Explain each phase in detail.	5	2	CO1
2	Explain the role of lexical analyzer with neat diagram.	5	2	CO1
3	Implement SLR(1) parser by using the grammar : S->AA A->aA/b	5	3	CO2
4	Define SDT. Evaluate the SDT for the grammar: E->E+T/T E->T*F/F F->num	5	3	CO3

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III BTECH. I Sem. (R18) I-Mid Examination

WEB TECHNOLOGIES (CSE)

H.T.No.:

Note: Answer Any *TWO* Questions. Each Question Carries 5 *marks*.

Q.No	Question	Marks	Blooms Level	COs
1	Write a PHP program to connect database with create query example?	5	2	CO1
2	Explain DTD?	5	1	CO3
3	Define cookie and write a short notes on cookie?	5	1	CO2
4	Write short notes on XML?	5	2	CO3

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IV BTECH. I Sem. (R18) I-Mid Examination

CRYPTOGRAPHY AND NETWORK SECURITY (CSE)

H.T.No.:

Note: Answer Any _TWO_ Questions. Each Question Carries 5 _marks_.

Q.No	Question	Marks	Blooms Level	COs
1	Explain different block cipher operations?	5	2	CO1
2	Explain DES algorithm briefly?	5	4	CO2
3	Demonstrate Types of Attacks?	5	1	CO1
4	Write a c/ java program for encryption and decryption algorithm for following? a) Caeser cipher b) Rail fence technique	5	3	CO3

ALL THE BEST