B.E

ANJUMAN-I-ISLAM'S
KALSEKAR TECHNICAL CAMPUS, NEW PANVEL
Approved by : All India Council for Technical Education, Council of Architecture, Pharmacy Council of India New Delhi,
Recognised by : Directorate of Technical Education, Govt. of Maharashtra, Affiliated to : University of Mumbai.
□ SCHOOL OF ENGINEERING & TECHNOLOG
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DEPARTMENT OF COMPUTER ENGINEERING

CLASS:- **BE**	SEM:- **VII**
SUBJECT:- **CSS**	DATE:- **/ 08 / 2017**
DURATION:- **60 mins.**	MARKS:- **20**

UNIT TEST 01

Q.01 Attempt any 5: (10 Marks)		Marks	CO
a)	Differentiate between two types of attacks.	2	CO-2
b)	Differentiate between Threats, Vulnerabilities, and Controls.	2	CO-1
c)	What are the goals of security .	2	CO-1
d)	What is mean by Confusion and Diffusion?	2	CO-1
	Differentiate cryptography algorithms DES, AES, CAST-128, IDEA, BLOWFISH by the number of rounds and key used for cipher the text .	2	CO-2
f)	Draw the block diagram for Multiple DES.	2	CO-2

Q.02 Attempt any 1: (05 Marks)			
a)	Differentiate between block and stream cipher.	5	CO-2
b)	Solve by the PLAY FAIR CIPHER? Messege : Recently we celebrate seventy First Independence day. Keyword : BRAINGEL	5	CO-2

Q.03 Attempt any 1: (05 Marks)			
a)	Differentiate between public and Private key cryptography.	5	CO-1
b)	Solve by the RSA algorithm to find set of encryption and decryption key, encrypt the message by receivers public key and decrypt by the private key of receiver. p=17 & q=11, M=15(Solve by Extended Euclidean algorithm)	5	CO-3

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DEPARTMENT OF COMPUTER ENGINEERING

CLASS:- **BE**	SEM:- **VII**
SUBJECT:- ERP & SCM	DATE:- 22 /8 / 2017
DURATION:- **60 mins.**	MARKS:- **20**

CLASS TEST 01

	Q.01 Attempt any 5: (10 Marks)	**Marks**	**CO**
a)	Define ERP.	2	CO1
b)	Explain Business Intelligence in ERP.	2	CO1
c)	Write two difference between E-business and E-commerce.	2	CO1
d)	Explain BPR.	2	CO1
e)	What are the key technologies for B2B E-commerce?	2	CO1
f)	Differentiate website and web portal.	2	CO1
	)2 Attempt any 1: (05 Marks)		
a)	Explaiin structure of ERP with diagram.	5	CO1
b)	Draw implementation life cycle of an ERP system.	5	CO2
	Q.03 Attempt any 1: (05 Marks)		
a)	Explain any one e-business model in detail.	5	CO3
b)	Explain EAI with example.	5	CO-1,3,4
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COURSE OUTCOMES FOR REFERENCE

CO1:- To conceptualize the basic structure of erp and scm.
CO2:- To identify implementation strategy used for erp and scm.
CO3:- To apply design principles for various business module in erp and scm.
CO:-4 To apply different emerging technologies for implementation of erp and scm.

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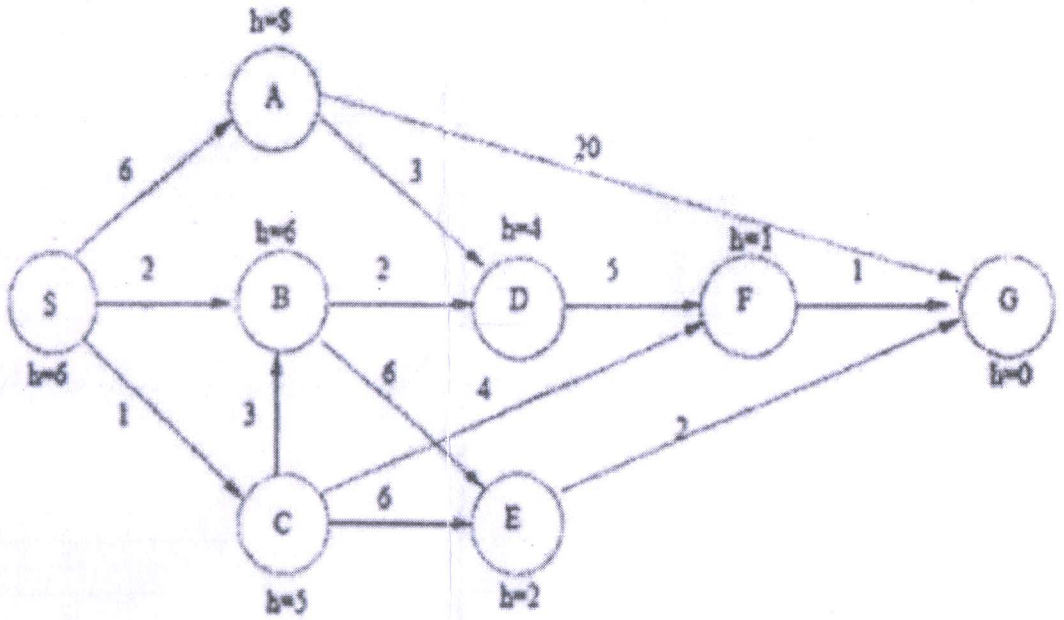
CLASS:- BE	SEM:- VII
SUBJECT:- AI	DATE:- 22 / 08 / 2017
DURATION:- **60 mins.**	MARKS:- **20**

TERM TEST 01

	Q.01 Attempt any 5: (10 Marks)	**Marks**	**CO**
a)	Problem generator is present in Learning Agent.(State true or false with proper Justification)	2	CO2
b)	Depth First Search is implemented with an empty first-in-first-out queue.(State true or false with proper Justification)	2	CO3
c)	In A* approach evaluation function is a) Heuristic function b) Path cost from start node to current node c) Path cost from start node to current node + Heuristic cost d) Average of Path cost from start node to current node and Heuristic cost	2	CO3
d)	Compare Model based Agent with Utility based Agent.	2	CO1
e)	What are the problems/frustrations that occur in hill climbing technique?	2	CO3
f)	Define AI. What are applications of AI ?	2	CO1
	Q.02 Attempt any 1: (05 Marks)		
a)	What are the basic building blocks of Learning Agent? Explain each of them with a neat block diagram.	5	CO2
b)	Compare Uninformed Search techniques.	5	CO3

Q.03 Attempt any 1: (05 Marks)			
a)	Compare following informed searching algorithms based on performance measure with justification : Complete,Optimal,Time Complexity and Space Complexity. A) Greedy Best First B) A* C)Recursive Best First(RBFS).	5	CO3
b)	Consider the search problem below with start state S and goal state G. The transition costs are next to the edges and the heuristic values are next to the states. What is the final cost using A* search. 	5	CO3

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DEPARTMENT OF COMPUTER ENGINEERING

TERM TEST 1

Subject: DIGITAL SIGNAL PROCESSING (DSP)	Date: 21 / 08/ 2017
Marks: 20 MARKS	Duration: 01 Hr
Class: BE - COMPUTERS Sem: VII	Branch: COMPUTER

Q. 1		Attempt any 5 of the following: (State TRUE or FALSE with justification)	Marks (20)	Course Outcomes
	a)	If x(n)= {1 2 3 4 5} is advanced by 2 samples it gives {5 4 3 -2 -1}.	2M	CO1
	b)	The subplot (221) function will allow a total of 5 graphs to get plotted in one window.	2M	CO2
	c)	Radars used in air traffic control are an application of convolution.	2M	CO3
	d)	The circular convolution is performed only on symmetric signals.	2M	CO3
	e)	An increase in speed leads to decrease in fuel is an example of Positive Correlation.	2M	CO3
	f)	For a system to be Unstable it must follow the rule of Bounded Input and Bounded Output.	2M	CO2
Q.2	a)	Compute Circular Convolution of the following two sequences using two methods x (n) = { 4, 2, 0 , 7, 1 } h (n) = { 4, -2, 1 }	5M	CO3
		OR		
	b)	Compute Linear Convolution of the following two sequences using m Equation and Matrix methods. x (n) = { 1 , 7, 0 , 3, 2, 6 } h (n) = { 1, 2, 1 }	5M	CO3
Q. 3	a)	Compute Linear Convolution of the following two sequences using Overlap Add method. x (n) = { 1 , 2, 3 , 4, 5, 6, 7, 8,9,10} h (n) = { 1, 0, 1 }	5M	CO3
		OR		
	b)	Explain the Karl Pearson's Coefficient of Correlation with a suitable example.	5M	CO3