2.5.1 Mechanism of internal assessment is transparent and robust in terms of frequency and variety

- Midterm Paper
- Student's Midterm Answer Sheet Evaluation
- Student's Practical Lab Records Evaluation
- Student's Assignment Answer

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ARYA GROUP OF COLLEGES I MID TERM EXAMINATION 2018-19 8CS2A - DIGITAL IMAGE PROCESSING (BRANCH - COMPUTER SCIENCE & ENGINEERING)

Max. Time: 2 Hrs Max. Marks: 40

					U	NIT I		-	1 1 1	a amotial	Or grove lo	vel	(5)
2.1		Explain the iresolution.	mage sen	sing & in	nage acq	uisition	proces	ss. E	xplain ti	ie spatiai	& gray le	VCI	(3)
Field	(b)	How many t	ypes of se	nsor arrar	ngements	are use	ed in in	nage	acquisi	tion? Expl	ain them.		(5)
		Particular Section 1				OR							
1	(a)	What is imag	ge samplir	ng system	?	Sept.							(5)
	(b)	Explain colo	r image re	epresentat	tion.				o timble	fine lister	MERTICAL TO		(5)
	T.H.		millighter.	and the second	The state of	UNIT	I						
Q. 2	(a)	Explain the representation		of image	represen	tation.	Differe	entia	te the in	nage com	pression	and	(10)
						OR							
	(a)	What is rela	tion betwe	een RGB	& HSI c	olor mo	dels.					(6)	(5)
	(b)	Explain the	human vi:	sual syste	m.								(5)
					TEN W	UNIT	II						
Q. 3	(a)	What do yo	u mean by	transform	mation o	f an ima	ige?						(5)
	(b)	Explain His	togram? V	What do y	ou mean		ogram	equa	alization	?			(5)
	NA.					OR	0.0	1.		1 Conthin?			(6)
	(a)	Explain the	image sm	oothing &	& how m	any typ	es of fi	ilters	are use	a for this:			(5)
	(b)	Define the l	nistogram sented as	. Perform	the histo	ogram e	qualiza	ation	and his	togram str	etching o	f the	
) and	Gray	0	1	2	3	4		5	6	7		(5)
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						NIT II		THE	terelle s			(5)	
Q. 4	(a)	Explain var	ious type:	s color mo	odels use	d in Di	gital in	nage	process	ing?			(5)
	(b)	Explain Wa	avelet Tra	nsformati	ion.	0.7	STORTING.		e Dyarto.	Marijada			(5)
		CONTRACTOR ST		-	2	OF		5	6	7 8			
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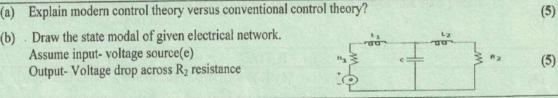
ARYA GROUP OF COLLEGES I MID TERM EXAMINATION 2018-19 6EE1A - MODERN CONTROL THEORY (BRANCH - ELECTRICAL ENGINEERING)

9

(5)

(5)

		e: 2hrs. Max. Marks: 40	
NOTI	E- /	Attempt all Four questions. UNIT I	
Q. 1	(a)	Determine the domain of the function $f(x) = \sqrt{4x - 8}$.	(5)
	(b)	Write short notes on following with example- i) Time varient and time invarient system iii) Causal and non-causal system iii)Linear and nonlinear system	(5)
		OR	
	(a)	Obtain the state space representation of the mechanical system shown in fig	
		$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	(5)
	(b)	Determine whether the vectors (3, 1, 6), (2, 0, 4), and (2, 1, 4) are linearly dependent. If so, represent in combination form.	(5)
-		UNIT I	
Q. 2	(a)	For an electrical system explain state space equation with examples.	(5)
	(b)	Write short notes on following with example- i) State variable, state vector ii) Domain and Range iii)Linearity	(5)
		OR	
	(a)	Explain modern control theory versus conventional control theory?	(5)
	(b)	Draw the state modal of given electrical network.	



UNIT II Construct the state model in Jordans canonical form a system whose transfer function is given by: Q. 3 $\frac{y(s)}{u(s)} = \frac{10}{(s+1)^2}$

Explain cascade and parallel decomposition in brief.. (5) (b)

OR Express the following transfer function in state mode using parallel decomposition method.

(a) (5) Y(s)/U(s) = (s+1)/(s+2)(s+3)(s+4)Deduce state space model in to transfer function

 $\dot{x}(t) = \begin{bmatrix} -1 & 0 & 1 \\ -3 & 0 & 0 \\ -5 & 1 & 0 \end{bmatrix} x(t) + \begin{bmatrix} 4 \\ 2 \\ 1 \end{bmatrix} u(t) ,$ (5)

UNIT II Express the following transfer function in state mode using direct decomposition method. Q. 4 $Y(s)/U(s) = (5s+6)/(s^3+2s^2+8)$

Obtain phase variable representation for a system whose transfer function is given by:

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I MID TERM EXAMINATION (VI Sem) 2017-18 6CE1A: THEORY OF STRUCTURES-II (BRANCH- CIVIL ENGINEERING)

Max. 1		2 hrs Max. Marks: ttempt all questions.	40
NOIL	- ~	UNIT-I	
Q. 1	(a)	Four wheel loads of 6,4,8 and 5 kN cross a girder of 20m span from left to right followed by udl of 4kN/m and 4m long with the 6kN load leading. The spacing between the loads in the same order are 3m, 2m, and 2m. The head of the udl is at 2m from the last 5kN load. Using influence lines, calculate the S.F. and B.M at a section 8m from the left support when the 4 kN load is at center of the span. OR	(10)
	(b)	A girder having a span of 18 m is simply supported at the ends. It is traversed by a train of loads as shown below, the 50 kN load leading. Find the maximum bending moment which occur (i) under the 200 kN load (ii) under 50 kN load, using influence line diagrams.	(10)
0		A 18 m	
		UNIT-I	
Q. 2	(a)	Using Muller Breslau Principle, determine the influence line for bending moment at D the middle point of span BC of a continuous beam show in fig compute the ordinate of 1 m interval.	(10)
		OR	
	(b)	A symmetrical three hinged circular arch has a span of 16m and a rise to the central hinge of 4m. it carries a vertical load of 16 kN at 4m from left end. Find (a) Horizontal Reaction, (b) the reactions at the supports, (c) B.M. of 6m from the left hand hinge, and (d) the maximum positive and negative B.M.	(10)
		UNIT-II	
Q. 3	(a)	Determine the influnce line for R _A for the continuous beam shown in figure. Compute the ordinate at every Im inteval. B El constant A M (a)	(10)
	-	OR	
	(b)	A circular arch of 20 m span with rise of 4 m. It carries a point load of 100 kN at 5 m from left hand hinge. Calculate:- (i)Horizontal thrust at Arch (ii) Reaction at support (iii) Maximum positive and negative bending moment (iv) Draw BMD	(10)
Q.4	(a)	A beam ABC is supported at A, B and C and has hinge at D distant 3m from A. AB = 7m and BC = 10m. Draw the influence lines for: (i) Reactions at A, B, C. (ii) S.F. at a point just right of B. Hence if a udl of intensity 2 kN/m and length 3m travels from left to right, calculate above quantities for which I.L. are drawn.	(10)
		OR	

I MID TERM EXAMINATION 2018-19

らまて3 4 /6CS3: Theory of Computation (BRANCH – CS/IT)

Max. Time:

Max. Marks: 40

NOTE- Attempt all Four questions.

UNIT I

Q. 1 (a) Differentiate between deterministic finite automata and non deterministic finite automata. Convert the following non deterministic transition system into deterministic system.

Convert the given NDFA into DFA: s,t is final state

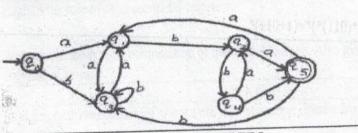
		Inpu	t Symbol
	State	0	1
4.	→p	{p,q}	{p}
(b)	q	{r,s}	{t}
	r	{p,r}	{t}
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OR

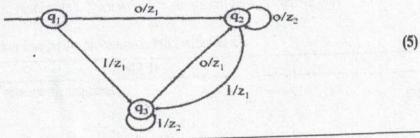
- (a) $M=(\{q_1, q_2, q_3, q_4\}, \{0,1\}, \delta, q_1, \{q_3\})$ is non deterministic finite automation, where δ is given by $\delta(q_1,0)=[q_2,q_3]$, $\delta(q_1,1)=[q_1]$, $\delta(q_2,0)=[q_1,q_2]$, $\delta(q_2,1)=\emptyset$, $\delta(q_3,0)=[q_2]$, $\delta(q_3,1)=[q_1,q_2]$. Construct equivalent DFA. (5)
- (b) Minimize the following finite automata. Also write the procedure for minimization



(5)

UNIT I

- (a) Construct a transition system which accepts set of string over €= {0, 1} and is with even no. of zeros and even no. of ones. Also find the acceptability of string 110101.
- (b) Consider a Mealy machine given by transition diagram. Construct a moore machine equivalent to this mealy machine.



OR

(a) Construct the DFA that accepts all the strings of 0's and 1's where:

Midterm Copy Answer Sheet

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ARYA College of Engg. & Research Centre

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MID TERM TEST I/II/III



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Assignment Answer Sheet

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	Expectation Set on the basis of Pre- Conditioning
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0.6	what are the Programs for ensuring the health
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ASSIGNMENT-1



	UNIT-1 PAGE DATE /
01	Explain Hulfman tore in detail suppose we not given the fall table or eletter forg.
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9 17 L	Huffman codes are of vooiable length, and partix tree (no code is profit of any other) here binary code on be Huffman coding tree or thuffman tree.
M	It is a full binder tree in which each leaf of the tree correspond to a letter in the Given alphabet.
estorant	Define the weighted path length of a leaf to be its weight things it!) depth the Halfman tare is the binary tore with min Entrant poth weight is the are with the



ARYA COLLEGE OF ENGINEERING & RESEARCH CENTRE

INDEX & EVALUATION REPORT

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ARYA COLLEGE OF ENGINEERING & RESEARCH CENTRE

INDEX & EVALUATION REPORT

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ARYA COLLEGE OF ENGINEERING & RESEARCH CENTRE INDEX & EVALUATION REPORT

Student Name: Trusha Bismas	Group No.:- Name of lab with code: AA LOL (5CS4-23)
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COLLEGE OF ENGINEERING & RESEARCH CENTRE

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Note:- (1) If a student is absent on any turn, he/she is to be awarded minus 20 marks for that turn.

Note:- (1) If a student is absent on any turn, he/she is to be awarded minus 10 marks.