Instructions to students:   1. Answer any one from question number 1 and 2   2. Answer any one from question number 3 and 4   3. Answer any one from question number 5 and 6   4. Answer any one from question number 7 and 8   5. Answer any one from question number 9 and 10   Unit4 Playlist https://youtube.com/playlist?list=PLmAmHQ5ySyQeEryrlomrEvOGNYN3TAL     Q. No.		SN									18	<b>3CS62</b>
Instructions to students:   1. Answer any one from question number 1 and 2   2. Answer any one from question number 3 and 4   3. Answer any one from question number 5 and 6   4. Answer any one from question number 7 and 8   5. Answer any one from question number 7 and 8   5. Answer any one from question number 9 and 10 Unit4 Playlist https://youtube.com/playlist/list=PLmAmHO5ySyGeEryrlomrEvOGNYN3TAL   Q. No.		B. E	. Degree (A	utonomou	s) Sixth	Semester	End Ex	amina	tion (SEI	E), June/J	uly 202	22
Instructions to students:   1. Answer any one from question number 1 and 2   2. Answer any one from question number 3 and 4   3. Answer any one from question number 5 and 6   4. Answer any one from question number 7 and 8   5. Answer any one from question number 9 and 10   Unit4 Playlist https://youtube.com/playlist?list=PLmAmHQ5ySQeEryrlomrEvOGNYMSTAL     Q. No.					M	ACHINE L	EARNI	NG				
Instructions to students:   1. Answer any one from question number 1 and 2					(Mo	del Questio	on Paper	- II)				
Instructions to students:    I. Answer any one from question number 1 and 2   2. Answer any one from question number 3 and 4   3. Answer any one from question number 5 and 6   4. Answer any one from question number 7 and 8   5. Answer any one from question number 9 and 10     https://youtube.com/playlist?list=PLmAmHQ5/SyQueEryrlomrEvOGNYN3TAL    Q. No.	· · · · · · · · · · · · · · · · · · ·							Maximum Marks: 100]				
1. Answer any one from question number 1 and 2 2. Answer any one from question number 3 and 4 3. Answer any one from question number 5 and 6 4. Answer any one from question number 9 and 10 5. Answer any one from question number 9 and 10 4. Answer any one from question number 9 and 10 5. Answer any one from question number 9 and 10 6. Answer any one from question number 9 and 10 7. Q. No.  QUESTIONS  Marks  QUESTIONS  Marks  QUESTIONS  Marks  QUESTIONS  Marks  CUESTIONS  Marks  CUESTIONS  Marks  CUESTIONS  Marks  CUESTIONS  Marks  A Checkers learning problem  b. A Handwritten recognition learning problem  c. A Weather Prediction problem  d. A robot driving learning problem  c. A Weather Prediction problem  d. A robot driving learning problem  SINO.  Breathing  Cough  Fever  Covid  difficulty  1 Yes Yes Yes Positive  2 Yes No Positive  3 Yes No Yes Negative  4 No Yes Yes Negative  4 No Yes Yes Negative  5 No No Yes Negative  4 No Yes Yes Negative  5 No No No No No Negative  OR  OR  The Bank wants to decide whether or not an individual should be given a bank loan or not. Use Candidate - Elimination Algorithm on the data below to find the decision. Will Solve and send later  SI. State Account Education Employed Online Y  MP Savings College Unemployed Online Y			_	s to studen	ts:							
1 A) Describe the following problems with respect to Tasks, Unit1 Page2 Performance and Experience:  a. A Checkers learning problem b. A Handwritten recognition learning problem c. A Weather Prediction problem d. A robot driving learning problem d. A robot driving learning problem d. A robot driving learning problem  B) Write FIND-S algorithm. Using Find-S Algorithm find the hypothesis to figure out if a person is Covid Positive or notusing the data given below with Solve according to examples in Unit1 Notes  SI No. Breathing Cough Fever Covid difficulty  1 Yes Yes Yes Positive 2 Yes No Positive 3 Yes No Yes Negative 4 No Yes Negative 5 No No Yes Negative 6 No No No Yes Negative 6 No No No No Regative 1 SI. State Account Education Employment Application Y/N No type 1 MP NA Bachelor Employed Online Y 2 MP Savings College Unemployed Online Y 4 MH Current Master Employed Online N 5 MP NA College Employed Online Y 6 MP Savings College Unemployed Online Y 6 MP Savings College Unemployed Online Y 7 Control Tasks, Unit1 Page2 10M Control Tasks,	1. Answer any one from question number 1 and 2 2. Answer any one from question number 3 and 4 3. Answer any one from question number 5 and 6 4. Answer any one from question number 7 and 8 5. Answer any one from question number 9 and 10  Unit4 Playlist											
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Performance and Experience:  a. A Checkers learning problem b. A Handwritten recognition learning problem c. A Weather Prediction problem d. A robot driving learning problem  d. A robot driving learning problem  d. A robot driving learning problem  d. A robot driving learning problem  d. A robot driving learning problem  B) Write FIND-S algorithm. Using Find-S Algorithm find the hypothesis to figure out if a person is Covid Positive or notusing the data given below with Solve according to examples in Unit1 Notes  SI No. Breathing Cough Fever Covid difficulty  1 Yes Yes Yes Positive 2 Yes No Positive 3 Yes No Yes Negative 4 No Yes Yes Negative 5 No No Yes Negative 5 No No No No No Negative  OR  2 A) The Bank wants to decide whether or not an individual should be given a bank loan or not. Use Candidate - Elimination Algorithm on the data below to find the decision.Will Solve and send later  SI. State Account Education Employment Application Y/N No type 1 MP NA Bachelor Employed Online Y 2 MP Savings College Unemployed Offline N 3 MP Savings College Unemployed Online Y 4 MH Current Master Employed Online Y 5 MP NA College Employed Online Y 6 MP Savings College Unemployed Online Y 7 Master Employed Online Y 8 MP Savings College Unemployed Online Y 9 MP Savings College Unemployed Online Y	4									107.5	001	Level L2
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Solve and send later   Sl.   State   Account   Education   Employed   College   Unemployed   Online   Y   Amh   Current   Master   Employed   Online   Y   Amh   Current   Master   Employed   Online   Y   College   Unemployed   Online   Online   Y   College   Unemployed   Online		B)	hypothesis the data gi SI No.	below ven below ven below ven below ven Breathing difficulty  Yes  Yes	cut if a pervith Solver Coup	erson is Coverence according  gh Fee  s Yes  s N	vid Positi to examp ver es 1	ve or no oles in U Covid Positive	otusing		CO2	L3
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B) Explain Find-S algorithm with a flowchart. Unit1 Page17-18 10M C	2		hypothesis the data gires I No.  I 2 3 4 5 6  The Bank version a ban the data below I MP 2 MP 3 MP 4 MH 5 MP 6 MP	resto figure of the ven below with the low with the low with the low wants to de wants to	Ye  Ve  No  No  No  Coule  Ye  No  No  No  No  Coide whee  Ot. Use O  the decise  Education  Bachelor  College  Bachelor  Master  College  College  College	gh Fey s Yo s N o Yo o N OH ether or not candidate - sion. Will Sol Employed Unemployed Employed Employed Unemployed Unemployed Unemployed Unemployed	vid Positi to examp ver  es   1 lo   1 les   N es   N es   N es   N lo   N  R t an indi Eliminat live and se Application Online Online Online Online Online Online	Positive Positive Positive Regative Reg	should be orithm on	10M	CO2	L3

	3	<b>A</b> )	Describe the ID3 algorithm for decision tree learning. Unit2 Page4						CO2	L2
		B)	Give Decision	pages	10M	CO2	L3			
ŀ	OR								002	T 2
	4 A) Construct the decision tree for the following training examples using ID3 Algorithm.								CO3	L3
			Major	Experience	Tie	Hired?				
			CS	programming	pretty	NO				
			CS	programming	pretty	NO				
			CS	management	pretty	YES				
			CS	management	ugly	YES				
			business	programming	pretty	YES				
			business	programming	ugly	YES				
			business	management	pretty	NO				
			business	management	pretty	NO				
Unit2 I	Page2	0 B)	Write a note on Occam's razor and minimum description principal.						CO2	L2
J. 114	5	A)	1 1						CO3	L3
		B) Explain important terminologies Unit4 Page75  (i) Threshold  (ii) Learning rate  (iii) Momentum Factor  (iv) Vigilance Parameter  (v) Bias								L2
	OR									
	6	A)	Explain per	10M	CO1	L2				
		Multiple output classes. Unit3 Page160 & 164  B) Implement OR function with bipolar inputs and targets using Adalination network. Unit4 Page205							CO3	L3
	7	<b>A</b> )	Prove that he in any learni between acti	08M on our	CO3	L3				
		<b>B</b> )	Explain Naï Unit4 15 and	12M	CO1	L2				
	8	<b>A</b> )	Explain max Theorem. Ur	10M	CO2	L2				
		<b>B</b> )	Explain Bay an example.	10M	CO2	L2				
	9	A)	Define the a) Sample er	5M	CO1	L2				
		B)	Explain Bind	omial Distribution	n. Unit5 Pag	e14		5M	CO4	L2
		C)	Explain the	10M	CO4	L3				

		discrete – valued function $f: \Re^n \to V$ with pseudo code Unit5 F	age3						
OR									
10	A)	Discuss the K-nearest neighbor Learning. Unit5 Page2	10M	CO4	L2				
	B)	Explain CADET System using Case based reasoning. Unit5 Page8	10M	CO4	L3				