			Re	g. No.										
		Question Paper Code 12147												
		M.E. / M.Tech DEGREE EX Second M.E C	AM l Sei	IINATI mester	ONS	5, N	ov	/ <b>D</b>	EC	202	3			
	201	PCDEL206 - ARTIFICIAL INTE APPLIC (Regulat	LLI CAT	IGENC TIONS 5 2020)	E A	ND	ITS	5 IN	DUS	STF	RIA	L		
Dur	ation	a: 3 Hours							Ma	x. N	/lar	ks: 10	00	
		<b>PART - A (10</b>	$\times 2$	= 20 M	arks	5)								
1.	Rec	Answer AL	r co	mputing	is g cha	aract	eris	stics				Ma <b>K-Lev</b> 2,K1	u <b>rks,</b> v <b>el, CO</b> ',CO1	
2.	Lis	t the five steps in NLP.										2,K1,CO1		
3.	Wr	ite the properties of Forward-Chain	ing.									2,K1,CO2		
4.	Plo	t the difference between fuzzy logic	e ano	d proba	bility	/.						2,K2,CO2		
5.	What is a Compiler in LISP?									2,K1,CO3				
6.	Wr	ite the Phases of Expert System Dev	velo	pment ]	Life	Cyc	le.					2,K2,CO3		
7.	What is a Canonical Data Model?								2,K1,CO4					
8.	Rec	call the advantages of MYCIN.										2,K1,CO4		
9.	Wr	ite the types of vision systems in rol	bots	5.								2,K1,CO5		
10.	Where automatic speech recognition is used?									2,K1	,CO5			
		<b>PART - B (5 ×</b> Answer AL	13 L C	= <b>65 M</b> Juestior	arks	)								
11.	a)	Illustrate about the steps involved Ol	in d R	levelopi	ng A	AI sy	ste	ms.				13,K.	2,CO1	
	b)	Describe the types of artificial neu machine learning.	ıral	networ	ks cı	ırrer	ntly	bei	ng u	sed	in	13,K.	2,CO1	
12.	a)	Elaborate in detail about the Ser example. Write the advantages Network.	nan sa	tic Netv nd dis	work adva	Re ntag	pre: ;es	sent of	atior Ser	n w nan	ith tic	13,K.	2,CO2	
	1 \		K		• , •	,1			***		1	12 12	2002	
	b)	Explain the Automated Machine importance of Automated machine	Lea e lea	arning arning.	w1th	the	ste	eps.	Wri	te t	the	13,K.	2,002	
13.	a)	Illustrate the choice of expert syste	em o	develop	men	t.						13,K.	2,CO3	
K1 –	Reme	ember; K2 – Understand; K3 – Apply; K4 -	- An	alyze; K5	E - Ev	aluat	e; K	<u> (</u> 6 – )	Creat	е		1214	7	

OR							
	b)	Discuss about the LISP and its program structure.	13,K2,CO3				
14.	a)	Discuss the fundamentals of object-oriented programming.	13,K2,CO4				
OR							
	b)	Describe the case studies in expert systems.	13,K2,CO4				
15.	a)	Explain the following in Image Processing (i) Noise Reduction (ii) Gray Scale Modification (iii) Histogram Flattening. <b>OR</b>					
	b)	Discuss Object recognition and inspection in difficult industrial environments.	13,K2,CO5				
PART - C (1 × 15 = 15 Marks)							
16.	a)	Illustrate the Certainty Factor in Artificial Intelligence.	15,K2,CO2				
		OR					

b) Explain the forms of learning in detail. 15,K3,CO3