

[Contd...

2	Attempt the following: 14					
	(a)	Ans	wer the following short questions:	4		
		(all	compulsory)			
		(1)	Which are the three steps by which inference is carried out recursively ?			
		(2)	Abductive inference is based on			
		(3)	To diagnose faults in physical activities, such as electronic circuit or electronic motors, it is necessary to the behaviour.			
		(4)	Version space is a logical approach to what type of learning?			
	(b)	Ans	wer any one of the following questions:	2		
		(1)	Probability			
		(2)	Supervised learning.			
	(c)	Ans	wer any one of the following questions:	3		
		(1)	Explain steps which are recursively carried out in inferences.			
		(2)	Write any few advantages of searching algorithm	s.		
	(d)	Ans	wer any one of the following questions:	5		
		(1)	Explain Rule induction with example.			
		(2)	Explain version space.			
3	Attempt the following:					
	(a)	Ans	wer the following short questions:	4		
		(all compulsory)				
		(1)	Who invented ANN ?			
		(2)	Instance-based learning is a kind of			
		(3)	Pattern cognition can be implemented by using a neural network.			
		(4)	A simple firing rule clan be implemented by using technique.			

	(b)	Ans	wer any one of the following questions:	2		
		(1)	Applications of nearest neighbour.			
		(2)	Semi metric Distance.			
	(c)	Ans	wer any one of the following questions:	3		
		(1)	Instance based learning.			
		(2)	Explain limitations and advantages of			
			back propagation.			
	(d)	Answer any one of the following questions:		5		
		(1)	Define distance matrix and write formula			
			with example.			
		(2)	Explain decision tree with example.			
4	Atte	Attempt the following:				
	(a)	Ans	wer the following short questions:	4		
		(all compulsory)				
		(1)	is for the measure of row likely an event.			
		(2)	Which type of hypothesis should be accepted as true and which type should be rejected as false in Bayesian inference?			
		(3)	A in concept learning or induction is the subset of all the hypothesis that are consistent with the observed training examples.			
		(4)	A Naive based classifier works on which theorem?			
	(b)	Ans	wer any one of the following questions:	2		
		(1)	Conditional Probability.			
		(2)	Posterior Probability.			
	(c)	Ans	wer any one of the following questions:	3		
		(1)	Short note on prior probability.			
		(2)	What is meant by probabilistic expert system?			

	(d)	Answer any one of the following questions:		5
		(1)	Explain Naive Bayes Classifier (NBC)	
			with example.	
		(2)	Explain Baye's theorem.	
5	Atte	\mathbf{empt}	the following:	14
	(a)	Answer the following short questions:		
		(all compulsory)		
		(1)	Who is the inventor of Hopfield net?	
		(2)	The concept of neural networks is highly based on	
		(3)	Write any two applications of Graphical models.	
		(4)	How many types of Graphical models are present in rule based expert system ?	
	(b)	Answer any one of the following questions:		2
		(1)	Write any two learning difficulties of rule	
			based expert system.	
		(2)	Define Polytrees.	
	(c)	Ans	swer any one of the following questions:	3
		(1)	Explain directed graphical model and its Bayes's network.	
		(2)	What is graphical mode and why we need graphical model?	
	(d)	Ans	ewer any one of the following questions:	5
		(1)	Write a short note on Hopfield network.	
		(2)	Explain pattern recognition in neural networks and how it recognizes patterns? Give examples.	