## http://www.rtmnuonline.com B.E. (Elect. & Telecommunication / Elect. & Communication Engineering) Eighth Semester (C.B.S.)

## **Elective-II: Artificial Intelligence**

P. Pages: 2 Time: Three Hours			* 0 8 2 2 *	<b>NJR/KS/18/4704</b> Max. Marks : 80
7.	Note.	2. 3. 4. 5. 6. 7. 8. 9. 10.	All questions carry marks as indicated. Solve Question 1 OR Questions No. 2. Solve Question 3 OR Questions No. 4. Solve Question 5 OR Questions No. 6. Solve Question 7 OR Questions No. 8. Solve Question 9 OR Questions No. 10. Solve Question 11 OR Questions No. 12. Due credit will be given to neatness and adequate dimensions. Assume suitable data whenever necessary. Illustrate your answers whenever necessary with the help of neat solve of non programmable calculator is permitted.  Intelligence agent? Explain in brief.	sketches.
	b)	What are	e the major component of AI system.  OR	7
2.	a)	What do	you mean by searching for solutions? Explain in detail.	7
	b)	Give the	comparison between human brain and computer intelligence.	7
3.	a)	What do	you mean by heuristic? Explain it for search?	7
	b)	Explain	3 important mentars of Hill climbing search.  OR	6
4.		i) De	brief about  pth first search  eadth first search	13
5.	a)	,	Forward chaining and backward chaining.	7
٥.	ŕ	_		6
	b)	Draw an	d explain the knowledge pyramid diagram. <b>OR</b>	0
6.	a)	What is	knowledge engineering? Explain in detail?	
	b)	Explain	in detail Turing test for knowledge.	() 47

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7.	a)	Write short note on:
76	9) (	i) Reinforcement learning. 7
		ii) Inductive learning.
		OR
8.		Write short note on
		i) EM algorithm. 7
		ii) Learning by observation. 6
9.	a)	Draw and explain the architecture of expert system in brief?
$ \wedge $	b)	What are the various functions of expert system. 6
1		OR
10.	a)	Write a short note on Waltz Algorithm. 7
	b)	Describe any two best export system. 6
11.	a)	Write a note on Semantic Interpretations?
	b)	Explain Ambiguity and disambiguation. 7
		OR
12.	a)	What do you mean by discourse understanding? Explain in detail.
	b)	Explain with example probabilistic language model. 7
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