2010(Prev)

Candidates are required to give their answers in their own words as far as practicable. परीक्षार्थी यथासंभव अपने शक्तें में उत्तर दें।

> Figures in the margin indicate full marks. दाहिने और किनारे में दिये हुए अंक पूर्णक निर्देष्ट करते हैं।

Time - 03 Hours

Full Marks - 80

Answer any five questions in which Q.No.1 is Compulsory.

Indica	ité the correct answer:	
(i)	Which among the following field of Al shares an interest in the history of grammars and language?	
	(a) Linguistics (b) Cybernetics	
	(c) Computer engineering (d) None of the above.	
(ii)	Which among the following achieves he best outcomes when there is uncertainty?	î
	(a) Program (b) Rational agent	
	(c) Problem Solving agent (d) None of the above	
	An agent act through (a) Actuators (b) Sensors	
	(d) Both a & b (d) None of these	
(IV)	Which among the following agents acts to achieve their goals ? (a) Simpley refley agent (b) Model based refley agent	
	(c) Goal based reflex agent (d) None of the above	
(v)	Which of the among the selects the deepest unexpanded node in the search tre for expansion?	e
	(a) Breath - first search -(b) Depth - first search	
	(c) Depth limited search (d) None of the above	
(vi)	Which among the following function estimates the cheapest path from mode n t	
70070	a goal mode ?	0
	(a) Agent function (b) Heuristic function	
	(c) Successor function (d) None of the above	
(vii)	The time complexity of depth first search in equal to	
	(a) Breadth -first search (b) Depth - Limited search	
	(c) Interative deepening search (d) None of the above	
(viii)	The is a declarative sentence that is either true or false	
X/	(a) Proposition (b) Symbol	
	(c) Formula (d) None of the above	
n	NAME OF TAXABLE PARTY O	
econo	ribe in detail, the different foundations of Artificial intelligence, explain the role o omics, Neuroscience, Psychology and computer science in Artificial Intelligence	
Expla behav	in an Agent and its structure, Explain also the agent environments in which ves.	t
What Depth	do you mean by uninformed search ? What are its different techniques. Explain the first search techniques with its properties.	e
	do you mean by intelligent agent ? Discuss its major characteristics & what is the ence between reflex agent and Model based reflex agents.	0
What	are different sources of knowledge ? Discuss the classification of knowledge is	n
What	is the concept of propositional logic ? Describe the method of representing aration. Discuss the validity and in constituency of formula.	3
Expla	in the properties and different techniques of Heuristic search. Also, discuss the A	A
	short notes on any two of the following	
AALITES	THE TAXABLE PROPERTY OF THE PR	
	ational agents (b) Toy problem	
(a) Ra	ational agents (b) Toy problem ent program (d) well defined problems.	