

BE-sem-VII-Old-computers
RAI

17/12/15

Q.P. Code : 2303

(3 Hours)

[Total Marks : 100

N.B.: (1) Question No. 1 is compulsory
(2) Write any four questions out of remaining.
(3) Assume suitable data if required.

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| 1 | (a) | Explain in brief configuration space. | 5 |
| | (b) | Explain forward chaining. | 5 |
| | (c) | What do you mean an admissible heuristics function? Discuss with suitable example. | 5 |
| | (d) | Explain steps in problem formulation. | 5 |
| 2 | (a) | Explain IDA* algorithm with example. | 10 |
| | (b) | Explain supervised and unsupervised learning with example | 10 |
| 3 | (a) | Explain various methods of knowledge representation with example. | 10 |
| | (b) | Discuss various position sensors used in robots. | 10 |
| 4 | (a) | Discuss the application of decision tree for restaurant example. | 10 |
| | (b) | Explain Hill-Climbing Algorithm with its limitations. | 10 |
| 5 | (a) | List and explain steps in designing the reactive behavioural system. | 10 |
| | (b) | Describe different types of environments applicable to AI agents. | 10 |
| 6 | (a) | Explain structure of Intelligent Agent. | 10 |
| | (b) | What is Uncertainty? How probability theory can be applied for toothache problem? | 10 |
| 7 | | Write short note on | 20 |
| | (a) | TCV | |
| | (b) | Predicate Logic. | |
| | (c) | Belief network. | |
| | (d) | Properties of environment. | |