

Total No. of Questions : 6]

SEAT No. :

**P5506**

[Total No. of Pages : 1

**BE/Insem/Oct.-82**

**B.E. (Computer Engineering) (Semester - I)  
SMART SYSTEM DESIGN AND APPLICATIONS  
(2012 Pattern)**

*Time : 1 Hour]*

*[Max. Marks : 30*

*Instructions to the candidates:*

- 1) *Attempt any three questions.*
- 2) *Figures to the right indicate full marks.*

- Q1)** a) Define Artificial Intelligence. List the applications of Artificial Intelligence. [6]  
b) Explain Turing Test. [4]

OR

- Q2)** a) Explain components of learning agent. [6]  
b) Write PEAS for automated Taxi driver. [4]

- Q3)** a) Explain the A\* algorithm with suitable example. [6]  
b) How well defined problem is formed? [4]

OR

- Q4)** a) Explain MINI-MAX Algorithm with example [6]  
b) What are uninformed search methods? Explain any one [4]

- Q5)** a) Write short note on unification algorithm [6]  
b) What is multi agent planning [4]

OR

- Q6)** a) Represent following sentences in first order logic.(Any Three). [6]  
i) Either Jack or Jill killed cat whose name Tuna.  
ii) Every person who buys policy is smart.  
iii) There is Barber who shaves all men in town who do not shave themselves.  
iv) A Sibling is another child of one's parents.  
b) Describe steps involved in knowledge engineering process [4]

