

SPPU-TE-COMP-CONTENT – KSKA Git

Total No. of Questions : 4]

SEAT No. : [REDACTED]

PD98

[Total No. of Pages : 1

[6410]-419

**T.E. (Computer Engineering) (Insem)
ARTIFICIAL INTELLIGENCE
(2019 Pattern) (Semester - II) (310253)**

Time : 1 Hour]

[Max. Marks : 30

Instructions to the candidates:

- 1) Answer Q1 or Q2, Q3 or Q4.
- 2) Neat diagrams must be drawn wherever necessary.
- 3) Figures to the right indicates full marks.
- 4) Assume suitable data, if necessary.

- Q1)** a) List and explain the potential risks and benefits of AI. [4]
b) Write a brief note on foundation and history of AI. [5]
c) What is an Intelligent agent? List and explain classes of agents. [6]

OR

- Q2)** a) Define AI. Give typical applications of AI in detail. [5]
b) What is the concept of Rationality? [4]
c) What is an agent and its environment in AI? List the different types of environments with example. [6]

- Q3)** a) Explain in detail about problem solving agent with an example. [5]
b) Compare Depth First and Best First Search methods. [6]
c) Write a note on Heuristic Functions. [4]

OR

- Q4)** a) List the differences between Informed and Uninformed search techniques. [5]
b) Explain A* algorithm in detail with example [7]
c) What is an Optimization problem? [3]

