

S.D.E.

M.C.A. SEM - V : SUMMER - 2018

SUBJECT: ARTIFICIAL INTELLIGENCE AND APPLICATIONS

Day: Wednesday

Date: 30/05/2018

S-2018-4629

Time: 10.00 A.M. TO 1.00 P.M.

Max. Marks: 80

N.B:

- 1) Attempt **ANY FIVE** questions from Section-I and **ANY TWO** questions from Section-II.
 - 2) Answer to both the sections should be written in **SEPARATE** answer books.
 - 3) Figures to the right indicate **FULL** marks.
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SECTION-I

- Q.1** Compare breadth first and depth first algorithm with example. (10)
- Q.2** Explain knowledge representation with frames. (10)
- Q.3** Explain forward and backward reasoning with example. (10)
- Q.4** Explain hill climbing algorithm. (10)
- Q.5** What is neural network? Explain back propagation network. (10)
- Q.6** Write difference between human intelligence and Artificial Intelligence with respect to perception, thinking, learning and communication. (10)
- Q.7** Write short note on (**ANY TWO**): (10)
- a) Expert system
 - b) Semantic net
 - c) Vision and speech

SECTION-II

- Q.8** a) Write a program to find a factorial of a number. (07)
- b) Write a program to find whether a given number is odd or even. (08)
- Q.9** a) Write a program to append one list to another list. (07)
- b) Write a program to find input word is palindrome or not (08)
- Q.10** Write short notes on (**ANY THREE**): (15)
- a) Genetic algorithm
 - b) DENDRAL
 - c) MYCIN
 - d) Natural Language Understanding

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