M. Tech.-IV (Information Technology) (CBCS – 2015 Course) : SUMMER - 2019

SUBJECT: SELF STUDY PAPER-II ARTIFICIAL INTELLIGENCE AND APPLICATIONS

Day: Thursday Time: 11.00 AM TO 02.00 PM Date: 13/06/2019 Max Marks: 60 S-2019-3512 N.B.: 1) All questions are **COMPULSORY**. 2) Figures to the right indicate FULL marks. 3) Assume suitable data if necessary. 4) Answer to both the sections should be written in **SAME** Answer book. SECTION-I Q.1 Explain the future scope of AI in machine learning. (10)OR Explain the future scope of AI in Robotics. Q.1 (10)**Q.2** Explain control strategies forward and backward chaining. (10)OR **Q.2** Explain best first search with suitable example. (10)Q.3 Explain frame system to represent knowledge. (10)OR Explain horn's clauses as integrity constraint. Q.3 (10)SECTION-II Q.4 Explain the component of planning system. (10)OR **Q.4** Discuss the various parsing techniques. (10)Q.5 Discuss Bayesian network with suitable example. (10)Explain various expert system shells with neat diagram. Q.5 (10)Explain explanation based learning system with suitable example. (10)**Q.6** OR Discuss vision-based robot positioning using neural networks. (10)**Q.6**