UNIVERSITY OF PETROLEUM AND ENERGY STUDIES
End Semester Examination, April/May 2018

Course: Artificial Intelligence   **Semester: VIII**
Program: : B.Tech-EE
Course Code: ELEG-442
Time: 03 hrs.   **Max. Marks: 100**

Instructions: all questions are compulsory

SECTION A

S. No.	Write short notes on the following	Marks	CO
Q 1	Fuzzy Logic	5	CO1
Q2	ANN	5	CO1
Q3	Turing Test	5	CO1
Q4	Activation Function	5	CO1

SECTION B

	All questions are compulsory	Marks	CO4
Q5	Explain the working principal of a Feed Forward Network.	10	CO4
Q6	Identify the application areas of Supervised & Unsupervised learning in an ANN system. (With examples)	10	CO4
Q7	Differentiate between FFNN and FBNN	10	CO3
Q8	Differentiate between ANN and Fuzzy Logic Or What are the benefits of using Fuzzy Logic	10	CO3

SECTION-C

	All questions are compulsory	Marks	CO5
Q9	Design & Explain the concept of perceptron in detail with training rule and weight distribution.	20	CO5
Q10	Design a system for home automation. (Which approach would you prefer and why between Fuzzy & ANN)	20	CO5