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P258

SEAT No. :

[Total No. of Pages : 1

BE/INSEM/APR - 586
B.E. (Computer Engineering)
410259: MACHINE LEARNING
(2015 Pattern) (Semester - II)

Time : 1 Hour]

[Max. Marks : 30

Instructions to the candidates :

- 1) *Answer Q1 or Q2, Q3 or Q4 and Q5 or Q6.*
- 2) *Neat diagrams must be drawn wherever necessary.*
- 3) *Assume suitable data, if necessary.*

Q1) a) Explain supervised learning with example. [5]

b) Discuss the reinforcement learning and write in brief the applications. [5]

OR

Q2) Describe the role of machine learning in the following applications : [10]

a) Google home or Alexa

b) Unmanned Vehicles

Q3) Explain in brief the feature selection and discuss in details any suitable feature selection method. [10]

OR

Q4) a) Write a short note on Kernel PCA? [5]

b) Discuss in brief the dictionary learning. [5]

Q5) a) Explain isotonic regression and write the applications in brief. [5]

b) What do you mean by linearly separable data and non-linearly separable data? [5]

OR

Q6) Explain in detail the Ridge regression and the Lasso regression. [10]

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