

# SPPU-BE-COMP-CONTENT – KSKA Git

Total No. of Questions : 4]

SEAT No. :

PB-263

[Total No. of Pages : 2

[6270]-51

**B.E. (Computer Engineering) (Insem)**

**DEEP LEARNING**

**(2019 Pattern) (Semester-VIII) (410251)**

*Time : 1 Hour]*

*[Max. Marks : 30*

*Instructions to the candidates :*

- 1) *Answers Q.1 or Q.2, Q.3 or Q.4.*
- 2) *Figures to the right side indicate full marks.*
- 3) *Neat diagrams must be drawn wherever necessary.*
- 4) *Make suitable assumption whenever necessary.*

- Q1)** a) Give Co-relation between Artificial Intelligence, Machine Learning, and Deep Learning. Compare Supervised and Unsupervised Learning. [5]
- b) What is Deep Learning? Enlist and Explain Challenges of the Deep Learning? [5]
- c) Enlist and Explain any four popular industrial tools used for Deep Learning. [5]

OR

- Q2)** a) Explain how Deep Learning works in three figures with one example. Also Explain Common architectural principles of Deep Network. [5]
- b) Write Short note on: Bias, Variance and Tradeoff. [5]
- c) Enlist and Explain any four real life applications of Deep Learning. [5]

- Q3)** a) What is Perceptron? Write short note on Multilayer Feed-Forward network with figure [5]
- b) Enlist and Explain Different Loss functions used in Neural Network. [5]
- c) Write short note on PyTorch and Colab. [5]

OR

*P.T.O.*

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- Q4)** a) Compare Back Propagation and Forward Propagation. [5]
- b) What is Activation Function? Enlist and Explain different Activation functions used in Neural Network. [5]
- c) Explain Sentimental Analysis and Its types. [5]

