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Total No. of Pages : 02

Total No. of Questions : 07

**B.Sc. (Artificial Intelligence & Machine Learning) (Sem.–5)**

**DEEP LEARNING**

**Subject Code : UGCA 1997**

**M.Code : 92423**

**Date of Examination : 23-12-22**

**Time : 3 Hrs.**

**Max. Marks : 60**

**INSTRUCTIONS TO CANDIDATES :**

1. **SECTION-A is COMPULSORY** consisting of **TEN** questions carrying **TWO** marks each.
2. **SECTION-B** contains **SIX** questions carrying **TEN** marks each and students have to attempt any **FOUR** questions.

**SECTION-A**

**1. Write briefly :**

- a) What is deep learning?
- b) What are the main differences between AI, Machine Learning and Deep Learning?
- c) What are the applications of deep learning?
- d) What do you mean by “*overfitting*” ?
- e) What is Backpropagation?
- f) What are the deep learning tools?
- g) Differentiate supervised and unsupervised deep learning procedures.
- h) How many layers in the neural network?
- i) What is the use of Deep learning in today's age, and how is it adding data scientists?
- j) What are the disadvantages of deep learning?

## SECTION-B

2. Explain the different layers of CNN.
3. What are the issues faced while training in Recurrent Networks?
4. What are the different layers of Autoencoders? Explain briefly.
5. Draw and explain the architecture of convolutional network.
6. What do you understand by Perceptron? Also, explain its type.
7. What is deep learning? Explain its uses and applications and history.

**NOTE : Disclosure of Identity by writing Mobile No. or Marking of passing request on any paper of Answer Sheet will lead to UMC against the Student.**