

- Q.18 Give four characteristics of Artificial Neural Network.
- Q.19 What is computer Vision? Give various applications of Computer Vision.
- Q.20 What are activation functions in Artificial Neural Network?
- Q.21 What are Ethical and Society related implications in Artificial Intelligence?
- Q.22 Give various applications of Deep Learning.

SECTION-D

Note: Long answer type questions. Attempt any two questions out of three questions. (2x8=16)

- Q.23 Define Artificial Intelligence. Explain various security relevant properties of Artificial Intelligence with example.
- Q.24 What do you mean by Natural Language Processing? Explain various components and challenges of Natural Language Processing.
- Q.25 Write short notes on the following:
- Supervised and Reinforcement Learning
 - Artificial Neurons

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2nd Sem. / Artificial Intelligence & Machine Learning

Subject : Fundamentals of Artificial Intelligence

Time : 3 Hrs.

M.M. : 60

SECTION-A

Note: Multiple choice questions. All questions are compulsory (6x1=6)

- Q.1 What is artificial Intelligence?
 - Artificial Intelligence is a field that aims to make humans more intelligent
 - Artificial Intelligence is a field that aims to improve the security
 - Artificial Intelligence is a field that aims to develop intelligent machines
 - Artificial Intelligence is a field that aims to mine the data
- Q.2 Which of the following is the branch of Artificial Intelligence?
 - Machine Learning

- b) Cyber forensics
- c) Full-Stack Developer
- d) Network Design

Q.3 Which of the following is a component of Artificial Intelligence?

- a) Training b) Learning
- c) Designing d) Puzzling

Q.4 Which of the following is the common language for Artificial Intelligence?

- a) C++ b) Java
- c) Python d) None of the above

Q.5 In case a machine is capable of changing its course of action based on the external environment without any external help then the machine is called _____.

- a) Special Machine b) Mobile Machine
- c) Intelligent Machine d) None of the above

Q.6 _____ is not an application of AI.

- a) Database Management System
- b) Digital Assistants
- c) Natural language processing
- d) Computer Vision

SECTION-B

Note: Objective/ Completion type questions. All questions are compulsory. $(6 \times 1 = 6)$

- Q.7 Name two types of Intelligence.
- Q.8 Name two challenges that may occur in AI.
- Q.9 Write full form of ANN
- Q.10 Give two applications of Computer Vision.
- Q.11 Define Logic Based Learning.
- Q.12 Expand DL _____.

SECTION-C

Note: Short answer type questions. Attempt any eight questions out of ten questions. $(8 \times 4 = 32)$

- Q.13 Give at least four differences between Deep Learning and Machine Learning.
- Q.14 Give four applications of Artificial Intelligence with examples.
- Q.15 Define Machine Learning. How does it help in Artificial Intelligence.
- Q.16 What are the various components of Natural Language Processing?
- Q.17 Differentiate between Human Learning and Machine Learning.