

- Q.21 Explain ANN and its relation to the human brain.
- Q.22 Describe the ethical issues related to AI in the Indian context.

SECTION-D

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

- Q.23 Describe various types of Machine Learning with examples.
- Q.24 Describe in detail various applications of Artificial Intelligence.
- Q.25 Elaborate on future applications of NLP and Computer Vision.

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Time : 3 Hrs.

M.M. : 60

SECTION-A

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

- Q.1 Which of these is an AI classification category?
- a) Narrow AI b) Deep AI
c) Soft AI d) Wide AI
- Q.2 Which domain uses AI for fraud detection?
- a) Sports b) Healthcare
c) Finance d) Tourism
- Q.3 Which ANN structure allows information to flow backward?
- a) Single Layer b) Multilayer
c) Feedback d) Feed forward

- Q.4 What is the full form of ANN?
- Artificial Narrow Network
 - Artificial Neural Network
 - Actual Neural Network
 - Analog neural Network
- Q.5 Which of these is a non-linear activation function?
- ReLU
 - Identity
 - Step
 - Linear
- Q.6 Which of the following is a philosophical issue in AI?
- Data storage
 - Real-time response
 - Common sense reasoning
 - Programming languages

SECTION-B

Note: Objective/ Completion type questions. All questions are compulsory. (6x1=6)

- Q.7 One Word : Name the Indian law or policy framework that governs AI ethics.
- Q.8 Supervised learning requires labelled data.

- Q.9 _____ is the component of NLP responsible for grammar analysis.
- Q.10 ANN and CNN are exactly the same. (True/False)
- Q.11 Write one example of application of Deep Learning in daily life.
- Q.12 The main challenge of AI is the lack of _____ knowledge.

SECTION-C

Note: Short answer type questions. Attempt any eight questions out of ten questions. (8x4=32)

- Q.13 Explain the classification of AI with suitable examples.
- Q.14 What is the role of logic in knowledge representation?
- Q.15 Briefly describe the history of Artificial Intelligence.
- Q.16 List any four challenges in implementing AI.
- Q.17 Describe the components of Natural Language Processing.
- Q.18 Compare Supervised and Reinforcement Learning.
- Q.19 What is the role of computer vision in robotics?
- Q.20 Write a note on malicious use of AI and its prevention.