

KOTHARI INTERNATIONAL SCHOOL, NOIDA
ANNUAL EXAMINATION, SESSION: 2025-26
GRADE: 9 SUBJECT: ARTIFICIAL INTELLIGENCE (417)
SET A

DAY & DATE: WEDNESDAY- FEBRUARY 11, 2026

MAXIMUM MARKS: 50

NAME: _____

TIME ALLOTTED: 2 HOURS

ROLL NO: _____

GENERAL INSTRUCTIONS:

- i). This question paper consists of 21 questions in two sections: Section A and Section B*
- ii). Section A has objective type questions, whereas Section B contains Subjective type questions.*
- iii). Out of the given (5 + 16 =) 21 questions, a candidate has to answer (5 + 10 =) 15 questions in the allotted (maximum) time of 3 hours.*
- iv). All questions of a particular section must be attempted in the correct order.*

SECTION – A

1. Answer any 4 out of the 6 questions.

- i.** What is a barrier to effective communication? **(1)**
 - (a) Clarity and conciseness
 - (b) Shared understanding
 - (c) Active listening
 - (d) Personal biases and emotions

- ii.** What is goal setting? **(1)**
 - (a) The ability to set clear and achievable objectives
 - (b) The ability to set unrealistic and unattainable objectives
 - (c) The ability to avoid setting objectives altogether
 - (d) The ability to not set any goal

- iii.** Which of the following is not a web browser? **(1)**
 - (a) Chrome
 - (b) Microsoft edge
 - (c) Safari
 - (d) Windows

- iv. A person who starts an enterprise is called an (1)
- a) Teacher
 - b) Entrepreneur
 - c) IT professional
 - d) Author
- v. Which of these is not a renewable natural resource? (1)
- (a) Wind
 - (b) Water
 - (c) Soil
 - (d) Coal
- vi. What is self-confidence? (1)
- (a) Belief in one's abilities
 - (b) The ability to manage stress
 - (c) The ability to communicate effectively
 - (d) The ability to help others

2. Answer any 5 out of the 6 questions.

- i. What is a smart home? (1)
- (a) A house with no windows
 - (b) A house for robots
 - (c) A house with advanced technology
 - (d) A house made of smart phones
- ii. What does NLU stands for in NLP? (1)
- (a) New Language processing
 - (b) Notable linguistic upgrade
 - (c) Natural language understanding
 - (d) Next level understanding
- iii. Face recognition is an example of _____ domain of AI. (1)
- iv. The term _____ refers to a system of principles and rules of conduct that govern an individual's acceptable behaviour and actions. (1)

- v. The process of cleaning and organizing the data is known as (1)
- (a) Data Acquisition
 - (b) Problem Scoping
 - (c) Data Exploration
 - (d) Data Validation

- vi. Name the virtual assistant made by Amazon (1)

3. Answer any 5 out of the 6 questions.

- i. Which of the following stages is used by the programmers to write about the nature and boundaries of a problem? (1)
- (a) Data Acquisition
 - (b) Problem Scoping
 - (c) Data Exploration
 - (d) Data Validation

- ii. State whether the given statement is True or False. (1)
Project deployment is usually done before the project clears the testing and evaluation stage.

- iii. Which one of the following is an application of AI? (1)
- (a) typing a doc
 - (b) self-driven cars
 - (c) automatic doors open and shut
 - (d) Microwave oven functioning

- iv. Statement 1: Where block helps you to focus on the context/situation/location of the problem. (1)
Statement 2: What block helps you need to determine the nature of the problem.
- (a) Statement1 is correct and Statement2 is incorrect
 - (b) Statement2 is correct and Statement1 is incorrect
 - (c) Both Statement1 and Statement 2 are incorrect
 - (d) Both Statement1 and Statement 2 are correct

- v. Which of the following is not a method to collect data? (1)
- (a) Surveys
 - (b) Web Scrapping
 - (c) Sensors
 - (d) Archives

- vi. Weak AI is also called _____ (1)
- (a) Narrow AI
 - (b) General AI

- (c) Natural AI
- (d) Generalised AI

4. Answer any 5 out of the 6 questions.

- i.** Name the technology that uses electromagnetic field to automatically identify and track tags attached to objects? **(1)**
- (a) RFID
 - (b) RDIF
 - (c) FIDR
 - (d) FDIR
- ii.** Which of the following talks about context/ situation of the problem? **(1)**
- (a) who
 - (b) where
 - (c) what
 - (d) why
- iii.** Why is the "why" aspect of the 4Ws framework important in problem scoping? **(1)**
- (a) To identify project stakeholders
 - (b) To determine the project's budget
 - (c) To understand the purpose of the project
 - (d) To analyse the project's timeline
- iv.** Quantitative data is numerical in nature. **(1)**
- a. True
 - b. False
- v.** What are the basic building blocks of qualitative data? **(1)**
- (a) Individuals
 - (b) Units
 - (c) Categories
 - (d) Measurements
- vi.** A Bar Graph is an example of? **(1)**
- a. Textual
 - b. Tabular
 - c. Graphical
 - d. Media

5. Answer any 5 out of the given 6 questions.

- i. _____ is the practice of protecting digital information from unauthorized access, corruption, or theft throughout its entire lifecycle. (1)
- (a) data security
 - (b) data literacy
 - (c) data privacy
 - (d) data acquisition
- ii. _____ relates to the manipulation of data to produce meaningful insights. (1)
- (a) Data Processing
 - (b) Data Interpretation
 - (c) Data Analysis
 - (d) Data Presentation
- iii. Find the missing pattern from the following (1)
2, 4, 6, 8, 10, 12, ?
- iv. What is the probability of getting head when you toss a coin once? (1)
- (a) 0.75
 - (b) 1
 - (c) 0
 - (d) 0.5
- v. With one throw of a six sided dice , what is the probability of getting an even number? (1)
- (a) 1/5
 - (b) 2/5
 - (c) 5/6
 - (d) 1/2
- vi Which of the following is NOT a strong password practice? (1)
- (a) Using a combination of uppercase, lowercase, numbers, and special characters
 - (b) Using your birthdate as your password
 - (c) Using a long password
 - (d) Regularly changing your password

Section – B

Answer any 3 out of the 5 questions.

6. What are the basic elements of a communication cycle? (2)

7. Why is self-awareness important? (2)
8. Differentiate between RAM and ROM? (2)
9. Explain any two characteristics of entrepreneur? (2)
10. What is the role of government in green economy? (2)

Answer any 4 out of the given 6 questions.

11. Differentiate between Strong AI and weak AI? (2)
12. Explain about disinformation and manipulation? (2)
13. Explain two steps to become data literate? (2)
14. What is data security? (2)
15. Mention few examples of how generative AI is used in various fields? (2)
16. Differentiate between data and information? (2)

Answer any 3 out of the 5 given questions.

17. Explain all the stages of AI Project cycle? (4)
18. What is a variable? Explain types of data by their properties and by organization? (4)
19. Differentiate between Artificial Intelligence, Machine Learning and Deep Learning? (4)
20. What are the key steps in the deployment process? Mention few examples of AI deployment? (4)
21. What are the limitations of using generative AI? (4)