

DAV BR PUBLIC SCHOOL, BINA

Half Yearly Exam (2024-25)

Practice Paper

CLASS -IX

ARTIFICIAL INTELLIGENCE (417)

Time Allowed : 2 Hrs.

Maximum Marks : 50

General Instructions:

1. This question paper consists of two parts viz. Section A: Employability Skills and Section B: Subject Skills.
2. Section A: Employability Skills (10 Marks)
 - i. Answer any 4 questions out of the given 6 questions of 1 mark each.
 - ii. Answer any 3 questions out of the given 5 questions of 2 marks each.
3. Section B: Subject Skills (40 Marks)
 - i. Answer any 10 questions out of the given 12 questions of 1 mark each.
 - ii. Answer any 4 questions out of the given 6 questions of 2 marks each.
 - iii. Answer any 4 questions out of the given 6 questions of 3 marks each.
 - iv. Answer any 2 questions out of the given 4 questions of 5 marks each.
4. This question paper contains 39 questions out of which 27 questions are to be answered.
5. All the questions of a particular part/section must be attempted in the correct order.

SECTION A

A Answer any 4 questions out of the given 6 questions on Employability Skills (1 x 4 = 4 marks)

1. Non verbal communication can be :

A) Unintentional B) Unspoken C) Phone call D) None of these

2. Which of the following is not a characteristic of communication?

A) It aims at exchanging information B) It is a social activity

C) It may not lead to any response or reaction D) Both (a) & (b)

3. Effective writing skill is the product of long hours of _____ and practice.

A) thinking B) Knowledge

C) Preparation D) None of the above

4. Which of the following is not a self-management skill?

A) Relational ability B) Personal quality C) Confidence D) None of these

5. Self management skills do not involve:

A) Manage emotions B) Manage inanimate C) Manage situation D) both (A) &(B)

6. Improving your self management skills:

A) Built your confidence B) Help in making friends C) None of these D) Grouping with friends

**B Answer any 3 questions out of the given 5 questions of 2 marks each
(2 x 3 = 6)**

7. What are verbal and non-verbal communications?
8. Briefly explain visual communication.
9. Name the parts of a sentence. Explain briefly with example.
10. Define self-management skills.
11. State three characteristics of Entrepreneurship.

SECTION B

Subject Specific Skills (40 Marks)

**C Answer any 10 questions out of the given 12 questions of 1 mark each.
(1 x 10 = 10)**

12. A technology used in unmanned vehicles like self-driving cars and drones is called ?
a. Hybrid technology b. Artificial intelligence c. Space technology d. None of these
13. The first widely used commercial form of Artificial Intelligence is being in many popular products like microwave ovens, automobiles, washing machines etc. What is the name of this AI ?
a. Auto Response b. Fuzzy logic c. Human logic d. Functional logic
14. A program that is used to detect unsolicited and unwanted email and prevent those messages from getting to a user's inbox .
a. Auto response b. Spam Filter c. Email Filter d. Email Blocker
15. Which of the following AI enabled virtual assistant is launched by Google?
a. Bixby b. Alexa c. Siri d. Echo
16. Which of the following company is working on driverless car:
a. Tesla b. Ampere c. Joule d. Amazon
17. Which one of the following is the first stage of an AI Project cycle ?
a. Data Exploration b. Data Acquisition c. Modeling d. Problem Scoping
18. Which of the following is not valid for Data Acquisition?
a. Web Scraping b. Surveys c. Sensors d. Announcements
19. Which of the following is not a part of the 4Ws Problem Canvas ?
a. Who ? b. Why ? c. What? d. Which?
20. Which of the following is a pictorial representation of an algorithm?
a. Pseudocode b. Program c. Flowchart d. Algorithm
21. _____ is the presentation of data in graphical format.
a. Data Exploration b. Data Visualization c. Data Modeling d. Data Presentation
22. Kite / Diamond shaped box in a flowchart is used for :
a. Decision b. Input c. Output d. Process
23. What symbol is used to represent output in a flowchart ?
a. circle b. square c. Parallelogram d. Kite shaped box

**D Answer any 4 questions out of the given 6 questions of 2 marks each.
(2 × 4 = 8)**

- 24 What is AI winters?
- 25 Give any three advantages and disadvantages each of AI.
- 26 What is an Artificial Intelligence project cycle ?
- 27 What is Data Visualization? Mention two data visualization techniques.
- 28 Differentiate between an Algorithm and Flowchart.
- 29 Explain an algorithm using an example.

**E Answer any 4 questions out of the given 6 questions of 3 marks each.
(3 × 4 = 12)**

- 30 Describe Unimate, the industrial robot.
- 31 What is pseudocode ?
- 32 Mention some limitations of Artificial Intelligence.
- 33 Who developed the chatbot ALICE , inspired by Weizenbaum's ELIZA.
- 34 Explain the concept of a System Map along with an example.
- 35 Differentiate between Narrow AI and General AI.

**F Answer any 2 questions out of the given 4 questions of 5 marks each.
(5 × 2 = 10)**

- 36 What is Data visualization? Mention two data visualization techniques.
- 37 What is an Artificial Intelligence project cycle ?
- 38 Write two advantages and disadvantages each of using a pseudocode.
- 39 Mention some of the skills required for Artificial Intelligence related jobs by 2030.

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