CBSE Class 10 – Artificial Intelligence (417)

Practice Question Paper – Set 2

Time: 2 Hours
Maximum Marks: 50

GENERAL INSTRUCTIONS

1. All questions are compulsory.
2. The question paper consists of **Part A (Employability Skills)** and **Part B (Subject Specific Skills)**.
3. Read the questions carefully before answering.
4. Write answers clearly and briefly.

PART A – Employability Skills (10 Marks)

SECTION A1 – MCQs

(1 × 5 = 5 Marks)

1. Which of the following improves communication?
   (a) Interrupting others
   (b) Active listening
   (c) Speaking fast
   (d) Ignoring feedback
2. Time management helps to:
   (a) Increase stress
   (b) Waste time
   (c) Complete tasks efficiently
   (d) Avoid responsibility
3. Which is a sign of good self-management?
   (a) Procrastination
   (b) Anger
   (c) Goal setting
   (d) Carelessness
4. Planting trees is an example of:
   (a) ICT skill
   (b) Green skill
   (c) Communication skill
   (d) Entrepreneurial skill

5. An entrepreneur takes risks in order to:
   (a) Avoid failure
   (b) Achieve business goals
   (c) Depend on others
   (d) Work less

SECTION A2 – Very Short Answer

(1 × 5 = 5 Marks)

6. What is active listening?
7. Write one advantage of self-management.
8. What is stress?
9. Mention one eco-friendly habit.
10. What is entrepreneurship?

PART B – Subject Specific Skills (40 Marks)

SECTION B1 – MCQs

(1 × 10 = 10 Marks)

11. AI systems work mainly on the basis of:
    (a) Guesswork
    (b) Data
    (c) Hardware
    (d) Electricity
12. Which of the following is NOT an AI application?
    (a) Face recognition
    (b) Voice assistant
    (c) Calculator
    (d) Recommendation system
13. The first step of the AI Project Cycle is:
    (a) Modelling
    (b) Evaluation
    (c) Problem scoping
    (d) Deployment
14. Identifying the problem and stakeholders is done in:
    (a) Data acquisition
    (b) Problem scoping
    (c) Modelling
    (d) Testing
15. Which type of learning uses labelled data?
    (a) Reinforcement learning
    (b) Unsupervised learning

(c) Supervised learning
(d) Random learning
16. Which AI domain deals with text and speech?
    (a) Computer Vision
    (b) Robotics
    (c) Data Analytics
    (d) Natural Language Processing
17. Which of the following is an ethical issue in AI?
    (a) Speed
    (b) Storage
    (c) Bias
    (d) Automation
18. A dataset used to test an AI model is called:
    (a) Training data
    (b) Input data
    (c) Testing data
    (d) Raw data
19. Which of the following is an example of Computer Vision?
    (a) Speech recognition
    (b) Image classification
    (c) Text translation
    (d) Chatbot
20. Improving an AI model after testing is part of:
    (a) Data collection
    (b) Evaluation
    (c) Modelling
    (d) Deployment

SECTION B2 – Short Answer

(2 × 5 = 10 Marks)

21. Define Artificial Intelligence.
22. Write any two uses of AI in education.
23. What is data acquisition?
24. What is supervised learning?
25. What is algorithm?

SECTION B3 – Long Answer

(4 × 5 = 20 Marks)

26. Explain the importance of data in Artificial Intelligence.
27. Describe the steps involved in the AI Project Cycle.
28. Explain any four real-life applications of Artificial Intelligence.
29. What is Computer Vision? Explain its applications.

30. Explain bias in AI and how it can be reduced.

☐ ANSWER KEY / MARKING POINTS (Set 2)

PART A

1. (b)
2. (c)
3. (c)
4. (b)
5. (b)
6. Listening carefully and responding appropriately
7. Better productivity / confidence
8. Mental or emotional pressure
9. Saving water / planting trees
10. Starting and managing a business

PART B

11. (b)
12. (c)
13. (c)
14. (b)
15. (c)
16. (d)
17. (c)
18. (c)
19. (b)
20. (c)

Evaluation Guidelines

- Correct definitions and concepts
- Proper examples in long answers
- Logical explanation and clarity
- Neat presentation