CBSE Class 10 – Artificial Intelligence (417)

Practice Question Paper – Set 1

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 all questions carefully before answering.
4. Use clear and simple language.

PART A – Employability Skills (10 Marks)

SECTION A1 – MCQs

(1 × 5 = 5 Marks)

1. Which of the following is an example of effective communication?
   (a) Speaking loudly
   (b) Listening carefully
   (c) Interrupting others
   (d) Ignoring feedback
2. Managing emotions is a part of which skill?
   (a) ICT skills
   (b) Self-management skills
   (c) Entrepreneurial skills
   (d) Green skills
3. Which activity helps in reducing stress?
   (a) Sleeping late
   (b) Exercise and meditation
   (c) Excessive screen time
   (d) Skipping meals
4. Switching off lights when not in use is related to:
   (a) Communication skills
   (b) ICT skills
   (c) Green skills
   (d) Entrepreneurial skills

5. An entrepreneur should have which quality?
   (a) Fear of failure
   (b) Risk-taking ability
   (c) Laziness
   (d) Dependence on others

SECTION A2 – Very Short Answer

(1 × 5 = 5 Marks)

6. What is effective communication?
7. Write one example of self-management.
8. What is stress management?
9. Write one example of a green skill.
10. Who is an entrepreneur?

PART B – Subject Specific Skills (40 Marks)

SECTION B1 – MCQs

(1 × 10 = 10 Marks)

11. Artificial Intelligence is the ability of machines to:
    (a) Replace humans completely
    (b) Think and act like humans
    (c) Only store data
    (d) Perform calculations only
12. Which of the following is an application of AI?
    (a) Calculator
    (b) Washing machine
    (c) Voice assistants
    (d) Electric bulb
13. Which stage of the AI project cycle involves collecting data?
    (a) Problem scoping
    (b) Data acquisition
    (c) Modelling
    (d) Evaluation
14. Which of the following is an example of supervised learning?
    (a) Grouping similar items
    (b) Predicting marks based on previous data
    (c) Playing a game randomly
    (d) Exploring unknown data
15. Which type of data consists of words and sentences?
    (a) Numerical data
    (b) Text data

(c) Image data
(d) Audio data
16. Which AI domain deals with images and videos?
    (a) Natural Language Processing
    (b) Data Science
    (c) Computer Vision
    (d) Robotics
17. Which of the following is an example of ethical concern in AI?
    (a) Fast processing
    (b) Data privacy
    (c) Automation
    (d) Accuracy
18. Which tool is commonly used to create AI models?
    (a) Paint
    (b) Scratch
    (c) Spreadsheet
    (d) Notebook
19. Which of the following is an example of bias in AI?
    (a) Accurate results
    (b) Fair decision-making
    (c) Unfair outcomes due to biased data
    (d) High speed
20. Which stage of AI project cycle checks the performance of a model?
    (a) Data acquisition
    (b) Modelling
    (c) Evaluation
    (d) Deployment

SECTION B2 – Short Answer

(2 × 5 = 10 Marks)

21. What is Artificial Intelligence?
22. Name any two applications of AI in daily life.
23. What is the AI Project Cycle?
24. What is machine learning?
25. What is data privacy?

SECTION B3 – Long Answer

(4 × 5 = 20 Marks)

26. Explain the stages of the AI Project Cycle.
27. Describe supervised and unsupervised learning with examples.
28. Explain any four ethical issues related to Artificial Intelligence.
29. What is Natural Language Processing (NLP)? Explain its applications.

30. Explain the role of data in building an AI model.

☐ ANSWER KEY / MARKING POINTS (Set 1)

PART A

1. (b)
2. (b)
3. (b)
4. (c)
5. (b)
6. Clear exchange of ideas with proper listening
7. Goal setting / time management
8. Managing stress through healthy practices
9. Saving electricity / recycling
10. A person who starts and manages a business

PART B

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

Evaluation Guidelines

- Correct definitions and terminology
- Step-wise explanations
- Examples wherever required
- Neat and clear presentation