



B.K. BIRLA CENTRE FOR EDUCATION

SARALA BIRLA GROUP OF SCHOOLS
A CBSE DAY-CUM-BOYS' RESIDENTIAL SCHOOL

ANNUAL EXAMINATION: 2025-26 ARTIFICIAL INTELLIGENCE (417)

Class: IX /SET-01

Date: 14-02-2026

Admission No. :

Time : 2 Hrs.

Max Marks: 50

Roll No. :

General Instructions:

1. Please read the instructions carefully.
2. This Question Paper consists of 21 questions in two sections : Section A & Section B.
3. Section A has Objective type questions whereas Section B contains Subjective type questions.
4. Out of the given (5 + 16 =) 21 questions, a candidate has to answer (5 + 10 =) 15 questions in the allotted (maximum) time of 2 hours.
5. All questions of a particular section must be attempted in the correct order.
6. **SECTION A - OBJECTIVE TYPE QUESTIONS (24 MARKS):**
 - i. This section has 05 question.
 - ii. Marks allotted are mentioned against question/part.
 - iii. There is no negative marking.
 - iv. Do as per the instructions given.
7. **SECTION B – SUBJECTIVE TYPE QUESTIONS (26 MARKS):**
 - i. This section has 16 questions.
 - ii. A candidate has to do 10 questions.
 - iii. Do as per the instructions given.
 - iv. Marks allotted are mentioned against each question/part.

SECTION A: OBJECTIVE TYPE QUESTIONS

Q.(1) Answer any 4 out of the given 6 questions on Employability Skills.

(4 x 1 = 4)

- i. Who initiates the process of communication?
a. Feedback b. Sender c. Receiver d. Communication Channel
- ii. Grooming is a term associated with _____.
a. Time management b. Problem solving
c. Neat and clean appearance d. Self-management
- iii. Which of the following is not true for the use of ICT in education?
a. Smartboard b. Smart pen c. Driverless car d. Virtual classrooms.
- iv. What does GPS stand for?
a. Global Positioning System b. Global Payment System
c. Global Program System d. Global Pointing System
- v. What is the output of the innovative process of setting up a business called?
a. Project b. Business c. Enterprise d. Work
- vi. The term “Green Economy” was first coined by :

- a. India b. UK c. America d. China

Q.(2) Answer any 5 out of the given 6 questions.

(5 x 1 = 5)

- i. Which of the following is not a domain of AI?
a. Data Statistics b. Computer Vision
c. Natural Language Processing d. Information
- ii. Which type of data can be used as input in the Computer Vision domain of AI?
a. Numeric b. Symbols
c. Image and Video d. All of these
- iii. Which of the following is an application in which the NLP domain is used?
a. Google Assistant b. Alexa c. Siri d. All of these
- iv. Which of the following is not a type of AI?
a. Artificial Narrow Intelligence b. Artificial General Intelligence
c. Artificial Super Intelligence d. Artificial Fastest Intelligence
- v. Which of the following is not an example of data?
a. Audio b. Video
c. Text d. Hardware
- vi. The _____ illustrates the progressive transformation of raw data into actionable wisdom.
a. Data b. Data literacy
c. Data pyramid d. Information

Q.(3) Answer any 5 out of the given 6 questions.

(5 x 1 = 5)

- i. _____ is about hunting for valuable information in different places, checking if it's good quality, and making sense.
a. Data discovery b. Data investigation
c. Data quality d. Data literacy
- ii. _____ can recognise objects, people, and even actions happening in videos.
a. NLP b. Data science
c. Data d. Computer vision
- iii. _____ should be organised in a way that makes sense so that it can be used effectively.
a. Data b. Knowledge c. Privacy d. Ethics
- iv. _____ should not have duplicates, missing values, outliers, and other anomalies so that its reliability and usefulness for analysis is not affected.
a. Text data b. Clean data
c. Visual data d. Ethical
- v. _____ are repeating designs or sequences that can be observed in numbers, shapes, images, languages, or objects in our surroundings.
a. Patterns b. Iterations c. Sequences d. Statistics
- vi. Which of the following statements is not true?
a. Mathematics helps in the study of patterns.
b. With the use of mathematics, you can solve puzzles.
c. Mathematics helps to identify an order/ arrangement in the list of images or numbers.
d. The patterns only exist in mathematics.

Q.(4) Answer any 5 out of the given 6 questions.

(5 x 1 = 5)

- i. _____ measures the amount of certainty of an event.
a. Probability b. Calculus c. Series d. Pattern
- ii. _____ also helps in concluding data.
a. Statistics b. Information c. Probability d. Sequence
- iii. If you toss a coin, the chance of getting a head or tail is an example of _____.

- a. equal probability b. unlikely events
- c. Impossible events d. certain events
- iv. _____ are captured by cameras, they are visual representations depicting scenes, objects, or people in exactly the same way as they exist in the real world.
- a. Real images b. AI-generated images
- c. Imaginative images d. Drawings
- v. _____ generated images can add modifications, enhancements, and even entirely new imaginative details.
- a. Computer b. AI c. Algorithm d. Real
- vi. In Generative Modelling, the model can generate structured data from the dataset.
- a. random noise b. labelled c. unlabelled d. temporary

Q.(5) Answer any 5 out of the given 6 questions. (5 x 1 = 5)

- i. _____ can be used to generate large volumes of content quickly and efficiently.
- a. Supervised learning b. Unsupervised
- c. Generative AI d. Deepfake
- ii. Name the type of generative AI used for artistic image creation based on learned features from famous paintings.
- a. AEs b. GANS c. VAES d. RNNs
- iii. Which of the following is the step-by-step approach in simple English-like statements?
- a. Algorithm b. Selection
- c. Flowchart d. Sequence
- iv. Which of the following is a valid logical operator?
- a. and b. != c. + d. >=
- v. ZeroDivisionError error is a _____
- a. Syntax Error b. Logical Error
- c. Runtime Error d. Not an Error
- vi. Which of the following symbols is used to display the decision-making statements in a flowchart?
- a. Rectangle b. Line c. Diamond d. Oval

SECTION B: SUBJECTIVE TYPE QUESTIONS

Answer any 3 out of the given 5 questions on Employability Skills. (3 x 2 = 6)

Answer each question in 20-30 words.

- Q6. What is oral communication?
- Q7. What is Self control?
- Q8. Give the full form of the following: a. ALU b. CPU c. ICT d. IP
- Q9. What do you mean by “feedback in the long run”?
- Q10. What is Global Warming?

Answer any 4 out of the given 6 questions in 20-30 words each. (4 x 2 = 8)

- Q11. What is the main goal of creating a confusion matrix?
Q12. How can Pie chart be useful in data presentation?
Q13. Define the term Data backup.
Q14. Give any two applications of statistics in real life.
Q15. Generative AI model need large training data. Elaborate.
Q16. Why while loop called entry-controlled loop?

Answer any 3 out of the given 5 questions in 40-50 words each.

(3 x 4 = 12)

- Q17. Explain any four disadvantage of AI.
Q18. Differentiate between continues and discrete data.
Q19. a. Draw a diagram to represent Recurrent Neural Network.
b. What is Autoencoders?
Q20. Differentiate between for loop and while loop with example.
Q21. Write a python program:
Input three angle and check whether they from a tringle or not.

***** ALL THE BEST *****