

SCO INTERNATIONAL  
AI OLYMPIAD 2023-24

DO NOT OPEN THIS BOOKLET UNTIL ASKED TO DO SO

### Guidelines for the Candidate

1. Before the exam begins, you will have an additional 20 minutes to complete the OMR Sheet with personal information.
2. On the OMR Sheet, clearly write your name, **school code, class, roll number, and mobile number..**

#### Total Questions - 35

3. Every inquiry must be answered. There are no failing grades. Calculator use is not allowed.
4. There is just ONE right response. Select ONE response choice only.
5. Use only an HB pencil or a blue or black ballpoint pen to indicate your choice of responses by darkening the corresponding circles on the OMR Sheet. E.g.

#### Q.1: What is the capital of India?

A. Kolkata B. Mumbai C. Delhi D. Chennai

You must shade the circle next to option C on the OMR Sheet since that is the right response.

Q.1. (A) (B) (C) (D)

6. At the conclusion of the test, hand over the OMR Sheet to the Invigilator.
7. Before attempting the paper, kindly provide your personal information in the box provided on this page. .



Name:.....

Registration ID:..... Contact No.:.....

## Section 1 - Basic Concepts (Introduction to AI in Daily Life)

1. What does AI stand for?

- A. Air Intelligence
- B. Artificial Intelligence
- C. Amazing Intelligence
- D. Active Intelligence

**Answer:** B

**Explanation:** AI means machines that can think and learn like humans.

2. Which of these is an example of AI in daily life?

- A. A washing machine without a timer
- B. A robot vacuum that cleans on its own
- C. A regular fan
- D. A pencil

**Answer:** B

**Explanation:** AI devices like robot vacuums work automatically by learning and deciding when to clean.

3. What helps AI learn things?

- A. Magic
- B. Data
- C. Food
- D. Paper

**Answer:** B

**Explanation:** AI uses data to learn and make decisions.

4. Which of these is NOT an AI technology?

- A. Siri on an iPhone
- B. A toaster
- C. Google Maps
- D. Alexa

**Answer:** B

**Explanation:** Toasters don't use AI, but Siri, Alexa, and Google Maps do.

5. AI helps us by...

- A. Drawing pictures
- B. Making smarter decisions
- C. Sleeping for us
- D. Reading our minds

**Answer:** B

**Explanation:** AI helps in decision-making by processing data.

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## Section 2 - Examples of AI (Voice Assistants, Robots, Simple Apps)

6. Which app uses AI to help you find directions?

- A. Google Maps

- B. Clock
- C. Camera
- D. Calculator

**Answer:** A

**Explanation:** Google Maps uses AI to show routes and traffic.

**7. What can a robot do?**

- A. Eat food
- B. Sing and talk with you
- C. Sleep like a human
- D. Cry tears

**Answer:** B

**Explanation:** Robots can be programmed to sing, talk, and perform tasks.

**8. Which of these is an AI voice assistant?**

- A. Siri
- B. Chalkboard
- C. Doorbell
- D. Lamp

**Answer:** A

**Explanation:** Siri is a voice assistant that uses AI.

**9. Which AI system helps you play songs?**

- A. Alexa
- B. Table
- C. Fridge
- D. Paper

**Answer:** A

**Explanation:** Alexa is a voice-controlled AI system.

**10. Robots are often used to...**

- A. Play games with friends
- B. Help in factories and homes
- C. Eat dinner
- D. Sleep in a bed

**Answer:** B

**Explanation:** Robots assist in tasks like assembly, cleaning, and more.

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**Section 3 - Pattern Recognition Games (Recognizing Objects and Colors)**

**11. What shape comes next? Circle, Square, Circle, Square, \_\_\_\_\_**

- A. Rectangle
- B. Circle
- C. Square
- D. Triangle

**Answer:** B

**Explanation:** The pattern alternates between a circle and a square.

12. Which of these is the odd one out?

- A. Red Apple
- B. Green Apple
- C. Blue Banana
- D. Yellow Banana

**Answer: C**

**Explanation:** Bananas are not naturally blue.

13. AI can recognize objects by using...

- A. Smell
- B. Pictures
- C. Books
- D. Magic

**Answer: B**

**Explanation:** AI uses pictures or cameras to identify objects.

14. What comes after this color sequence? Red, Green, Red, Green, \_\_\_\_\_

- A. Blue
- B. Red
- C. Yellow
- D. Green

**Answer: B**

**Explanation:** The pattern alternates between red and green.

15. Which tool helps AI recognize colors?

- A. Microphone
- B. Camera
- C. Book
- D. Spoon

**Answer: B**

**Explanation:** A camera captures images that AI can analyze.

#### Section 4 - Achievers Section (Logical Puzzles, Fun with Matching Patterns)

16. If a robot cleans 2 rooms in 1 hour, how many rooms will it clean in 3 hours?

- A. 5
- B. 6
- C. 3
- D. 9

**Answer: B**

**Explanation:**  $2 \text{ rooms} \times 3 \text{ hours} = 6 \text{ rooms}$ .

17. What comes next in this number pattern? 2, 4, 6, 8, \_\_\_\_\_

- A. 10
- B. 12
- C. 14
- D. 16

**Answer:** A

**Explanation:** The pattern increases by 2 each time.

18. Match the pair: Robot is to Clean as Siri is to \_\_\_\_\_.

- A. Talk
- B. Walk
- C. Cook
- D. Dance

**Answer:** A

**Explanation:** Siri is designed to talk and assist.

19. Which one does not belong in this group?

- A. Refrigerator
- B. Alexa
- C. Fan
- D. Google Assistant

**Answer:** C

**Explanation:** Fans are not AI devices.


20. If AI recognizes a car, what would it most likely see?

- A. Wheels and windows
- B. A book and pen
- C. A tree and grass
- D. A dog and bone

**Answer:** A

**Explanation:** AI identifies objects by features like wheels and windows for a car.

21. A robot sees this pattern:    . What comes next?

- A. 
- B. 
- C. 
- D. 

**Answer:** B

**Explanation:** The pattern alternates between  and .

22. Which AI device would help you make a list?

- A. Calculator
- B. Alexa
- C. Torch
- D. Calendar

**Answer:** B

**Explanation:** Alexa can help create and manage lists.

23. If 1 robot does 10 tasks in 1 day, how many tasks will 2 robots do in 2 days?

- A. 20
- B. 30
- C. 40
- D. 50

**Answer: C**

**Explanation:**  $10 \text{ tasks} \times 2 \text{ robots} \times 2 \text{ days} = 40 \text{ tasks}$ .

**24. AI can help a camera find...**

- A. Stars
- B. People's faces
- C. Colors only
- D. Shadows only

**Answer: B**

**Explanation:** AI in cameras helps recognize faces.

**25. If AI recognizes a zebra, what pattern will it notice?**

- A. Dots
- B. Stripes
- C. Circles
- D. Plain

**Answer: B**




**Explanation:** Zebras are recognized by their stripes.

**26. Match the shapes: Triangle is to 3 sides as Square is to \_\_\_\_.**

- A. 4 sides
- B. 5 sides
- C. 6 sides
- D. 2 sides

**Answer: A**

**Explanation:** Squares have 4 sides.

**27. What is the missing part?**      \_\_\_\_\_

- A. 
- B. 
- C. 
- D. 

**Answer: A**

**Explanation:** The sequence repeats:   .

**28. AI uses patterns to solve puzzles like...**

- A. Matching objects
- B. Writing essays
- C. Flying planes
- D. Cooking food

**Answer: A**

**Explanation:** AI recognizes patterns to solve puzzles.

**29. What does a self-driving car use to stay on the road?**

- A. Music
- B. Cameras and AI
- C. Paint
- D. A map

**Answer:** B

**Explanation:** Cameras and AI help the car see and navigate.

30. Which is a matching pair? Dog is to Bark as Cat is to \_\_\_\_\_.

- A. Meow
- B. Roar
- C. Sing
- D. Dance

**Answer:** A

**Explanation:** Cats meow, just as dogs bark.

31. What comes next in this shape pattern? , , , , , \_\_\_\_\_

- A. 
- B. 
- C. 
- D. 

**Answer:** B

**Explanation:** The pattern alternates between  and .

32. If an AI robot finds a triangle and then a square, what shape might come next if it repeats?

- A. Circle
- B. Rectangle
- C. Triangle
- D. Hexagon

**Answer:** C

**Explanation:** The sequence repeats: triangle, square, triangle.

33. If you see: 1, 3, 5, 7, \_\_\_\_\_, what is the next number?

- A. 8
- B. 9
- C. 10
- D. 11

**Answer:** B

**Explanation:** The pattern increases by 2: 1, 3, 5, 7, 9.

34. Which robot would help clean your room?

- A. A vacuum robot
- B. A cooking robot
- C. A music robot
- D. A swimming robot

**Answer:** A

**Explanation:** Vacuum robots are designed to clean.

35. AI can recognize animals by...

- A. Smelling them
- B. Seeing their shapes and patterns

- C. Hearing their voices
- D. Reading about them

**Answer:** B

**Explanation:** AI uses cameras to detect shapes and patterns to identify animals.

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