

SCO INTERNATIONAL CODING 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..**
3. Four sections make up the question paper:

General (20 Questions), **Reason/Assertion** (5 Questions), **Case Study** (5 Questions) and **Achievers Section** (5 Questions). Each question in Achievers Section carries 2 marks, whereas all other questions carry one mark each.

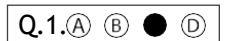
Total Questions - 35

4. Every inquiry must be answered. There are no failing grades. Calculator use is not allowed.
5. There is just ONE right response. Select ONE response choice only.
6. 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.



7. At the conclusion of the test, hand over the OMR Sheet to the Invigilator.
8. 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

1. What is AI?

- A) A type of plant
- B) Technology that can help people
- C) A type of animal
- D) A song

Answer: B

Explanation: AI stands for "Artificial Intelligence," which is technology designed to perform tasks and help people.

2. What does AI stand for?

- A) Artificial Ice
- B) Amazing Intelligence
- C) Artificial Intelligence
- D) Active Information

Answer: C

Explanation: AI stands for "Artificial Intelligence," which is technology that can learn and make decisions.

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

- A) Watching TV
- B) A voice assistant that sets alarms
- C) Reading books
- D) Playing outside

Answer: B

Explanation: Voice assistants, which use AI, can perform tasks like setting alarms and reminders.

4. Which device can use AI?

- A) Pencil
- B) Smart speaker
- C) Cup

	<p>D) Paper</p> <p>Answer: B</p> <p>Explanation: Smart speakers often use AI to understand voice commands and respond.</p>
5.	<p>AI helps us by _____.</p> <p>A) Talking to plants B) Making things easier C) Making things harder D) Sleeping</p> <p>Answer: B</p> <p>Explanation: AI is used to make our daily tasks easier, such as setting reminders or helping in navigation.</p>
6.	<p>Where can you find AI?</p> <p>A) In the ocean B) In a robot vacuum cleaner C) On trees D) In a rock</p> <p>Answer: B</p> <p>Explanation: AI is used in robot vacuums to help them clean efficiently.</p>
7.	<p>Which of these is NOT AI?</p> <p>A) A robot that cleans floors B) A regular desk lamp C) A smart refrigerator D) A voice assistant</p> <p>Answer: B</p> <p>Explanation: A regular desk lamp does not have AI; it simply turns on and off without "thinking."</p>
8.	<p>AI is most like a _____.</p> <p>A) Rock B) Human brain C) Tree D) Shoe</p> <p>Answer: B</p> <p>Explanation: AI is designed to mimic some human thought processes, like learning and decision-making.</p>
9.	<p>What is an AI robot?</p> <p>A) A type of pet</p>

	<p>B) A machine that can perform tasks on its own C) A type of toy D) A game Answer: B Explanation: AI robots are machines that use technology to complete tasks without human control.</p>
10.	<p>AI can help us _____.</p> <p>A) Water plants B) Write stories C) Recognize voices D) Sleep better Answer: C Explanation: AI is often used in voice assistants, which can recognize and respond to different voices.</p>
<p>Section 2: Examples of AI (Questions 11-20)</p>	
11.	<p>What can a voice assistant do?</p> <p>A) Fly like a bird B) Help answer questions C) Cook food D) Play sports Answer: B Explanation: Voice assistants like Siri and Alexa can answer questions by listening to voice commands.</p>
12.	<p>Which of these uses AI to recognize faces?</p> <p>A) Book B) Camera on a phone C) Clock D) Pencil Answer: B Explanation: Phone cameras use AI for facial recognition to unlock the device.</p>
13.	<p>Which of these might be an AI-powered device?</p> <p>A) Washing machine B) Robot vacuum cleaner C) Notebook D) Table Answer: B Explanation: A robot vacuum cleaner can move on its own using AI to avoid obstacles.</p>

14.	<p>AI voice assistants include ____.</p> <p>A) Siri and Alexa B) Tables and chairs C) Water and milk D) Grass and trees</p> <p>Answer: A Explanation: Siri and Alexa are examples of AI-powered voice assistants.</p>
15.	<p>AI can help you with ____.</p> <p>A) Writing letters B) Setting reminders C) Holding objects D) Cutting paper</p> <p>Answer: B Explanation: AI assistants can be programmed to set reminders for users.</p>
<p>Section 3: Pattern Recognition Games</p>	
16.	<p>What comes next in the pattern? Circle, Square, Circle, ____?</p> <p>A) Triangle B) Square C) Circle D) Rectangle</p> <p>Answer: B Explanation: The pattern alternates between Circle and Square, so the next in line would be Square.</p>
17.	<p>Find the odd one out: Dog, Siri, Cat, Parrot.</p> <p>A) Dog B) Siri C) Cat D) Parrot</p> <p>Answer: B Explanation: Siri is an AI assistant, while the others are animals.</p>
18.	<p>Choose the correct pattern: Red, Blue, Red, ____?</p> <p>A) Green B) Red C) Blue D) Yellow</p> <p>Answer: C Explanation: The colors alternate between Red and Blue, so Blue is next.</p>

19.	<p>In this list, which does not belong? Laptop, Book, Phone, Voice Assistant.</p> <p>A) Laptop B) Book C) Phone D) Voice Assistant</p> <p>Answer: B Explanation: Book is the only item that does not use AI.</p>
20.	<p>Which AI tool recognizes patterns?</p> <p>A) Chair B) Lamp C) Voice assistant D) Cup</p> <p>Answer: C Explanation: Voice assistants can recognize voice patterns to respond accurately.</p>
<p>Section 3: Basics of Coding (Questions 31-35)</p>	
21.	<p>What does it mean to “code”?</p> <p>A) To paint B) To write instructions for a computer C) To draw pictures D) To play games</p> <p>Answer: B Explanation: Coding is the process of writing instructions that tell a computer what to do.</p>
22.	<p>Which of these is a programming language?</p> <p>A) English B) Python C) Math D) History</p> <p>Answer: B Explanation: Python is a popular programming language used for coding.</p>
23.	<p>What tool can be used to help learn coding?</p> <p>A) Paintbrush B) Computer C) Bicycle D) Bookbag</p> <p>Answer: B Explanation: Coding is done on a computer, where we can write and test code.</p>

24.	<p>Which of these can a code help create on a computer?</p> <p>A) A game B) A cake C) A school D) A tree</p> <p>Answer: A Explanation: Coding can create games and applications on a computer.</p>
25.	<p>What do you call a set of instructions that tells a computer what to do?</p> <p>A) Code B) Chapter C) Drawing D) Number</p> <p>Answer: A Explanation: Code is the term used for the instructions given to a computer.</p>
26.	<p>In coding, what does the word “repeat” mean?</p> <p>A) Do something again B) Stop the program C) Draw a picture D) Finish the code</p> <p>Answer: A Explanation: “Repeat” in coding means to do the same action more than once.</p>
27.	<p>If a character in a game moves 10 steps forward, what direction is it moving?</p> <p>A) Backward B) Forward C) Right D) Left</p> <p>Answer: B Explanation: Moving forward means going in a straight line ahead.</p>
28.	<p>What does a “loop” in coding help us do?</p> <p>A) Start the code over B) Repeat an action several times C) End the program D) Make the character dance</p> <p>Answer: B Explanation: A loop repeats a specific action multiple times in a code.</p>
29.	<p>Which of these actions is most like giving instructions in coding?</p> <p>A) Baking cookies by following a recipe</p>

	<p>B) Throwing a ball C) Skipping a rope D) Sleeping Answer: A Explanation: Coding is like following a recipe, where each step needs to be completed in order.</p>
30.	<p>If you wanted a character to turn right in a code, which command would you use?</p> <p>A) Move forward B) Turn left C) Turn right D) Stop Answer: C Explanation: To make a character turn in a particular direction, we use a command like "turn right."</p>
	<p>Section 4: Achievers Section (Questions 31-35)</p>
31.	<p>Which AI device could help find lost items?</p> <p>A) GPS tracker B) Marker C) Plant D) Glue Answer: A Explanation: GPS trackers use AI to locate objects.</p>
32.	<p>If you ask a voice assistant for the weather, it answers by _____.</p> <p>A) Dancing B) Using patterns to predict the answer C) Singing D) Changing the weather Answer: B Explanation: Voice assistants use data patterns to give accurate weather responses.</p>
33.	<p>AI voice assistants can be asked to _____.</p> <p>A) Count steps B) Clean the room C) Play a song D) Walk the dog Answer: C Explanation: Voice assistants can play music when asked.</p>

<p>34.</p>	<p>If a robot vacuum cleaner cleans a room, it uses AI to _____. A) Find and remove dirt B) Break things C) Play music D) Make noise Answer: A Explanation: AI allows the vacuum cleaner to locate dirt and clean effectively.</p>
<p>35.</p>	<p>What can you ask a voice assistant to do in the morning? A) Tell the time B) Set an alarm C) Play music D) All of the above Answer: D Explanation: Voice assistants can perform various tasks such as telling time, setting alarms, and playing music.</p>

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