

**IIMA Online MBA Admission Test (IAT):
Question Paper Sample**

Please read the following instructions carefully:

- The total time for the IAT is 90 minutes. For PwD candidates, there will be an additional 1/3rd time.
- The IAT consists of three sections:
 - o Analytical Reasoning
 - o Verbal Aptitude
 - o Quantitative Aptitude
- Each section will have 15 questions and the time allotted is 30 minutes each.
- You may use a basic calculator (no scientific calculator).
- There will be negative marking across some sections, which will be mentioned.
- We will provide detailed Standard Operating Procedure for the IAT in due course.

Please note: the question paper sample detailed in this document is just a guidance on the nature of questions. The type of questions, its variation, and difficulty range may differ in the actual IAT.

- In this document, 5 questions each from three sections are given.
- This document contains 7 pages including the first page.

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Analytical Reasoning

Question 1.

The longest book in the New York Public Library is shorter than the longest book in the British Library. The shortest book in the British Library is shorter than the shortest book in the French National Library. There is at least one book in the British Library longer than every book in the French National Library.

Which of the following is impossible?

- A. Every book in the New York Public Library is shorter than the shortest book in the French National Library.
- B. Every book in the British Library is longer than at least one book in the French National Library.
- C. Every book in the French National Library is shorter than the longest book in the New York Public Library.
- D. There is at least one book in the New York Public Library longer than the shortest book in the British Library.

Question 2.

In a race among four people - Anish, Bhishan, Charul and Dhiren - it is observed that Anish was neither the fastest nor the slowest. Dhiren is faster than Bhishan but slower than Charul. Which of the following must be true?

- A. Anish is the second fastest.
- B. Anish is faster than Charul.
- C. Dhiren is faster than Anish.
- D. Bhishan is the slowest.

Question 3.

A marketing manager says, "Running multiple advertising campaigns simultaneously does not necessarily reduce the impact of our marketing efforts. It's the lack of coherence between these campaigns that dilutes our message. Therefore, the upcoming series of campaigns is likely to be less effective." The conclusion drawn by the marketing manager follows logically from which assumption?

- A. The upcoming campaigns are cheaper than previous ones.
- B. The upcoming campaigns will be managed by a less experienced team.
- C. The upcoming campaigns are not well-coordinated and lack a unified theme.
- D. The upcoming campaigns will focus on a narrower target audience.

Question 4.

It is known that students who receive the Merit Scholarship have a GPA of 3.5 or higher. It is also known that students who receive the Athletic Scholarship are varsity athletes with a GPA of 3.5 or higher.

Which of the following is true?

- A. The Merit Scholarship is not awarded to varsity athletes.
- B. If a student is not a varsity athlete, they cannot receive the Athletic Scholarship.
- C. A student who receives the Athletic Scholarship also qualifies for the Merit Scholarship.
- D. There is at least one student who receives both scholarships.

Question 5.

Some of the vehicles operated by the City Transit Authority are electric buses. All electric buses are equipped with both GPS tracking and with accessibility features for disabled passengers. Moreover, some of the vehicles in the City Transit fleet with GPS tracking are used for public service announcements. Which of the following is necessarily false.

- A. The City Transit Authority does not have any electric buses featured in public service announcements.
- B. Some vehicles featured in public service announcements operated by the City Transit Authority has accessibility features for disabled passengers.
- C. If a bus used for public service announcement has accessibility features for disabled passengers, then it is an electric bus.
- D. There is at least one non-electric bus that has accessibility features.

Verbal Aptitude

Questions 1 and 2:

Match the given word with its meaning from the four options given below.

1. Transgression

- A. Climbing to the top
- B. Breaking a rule
- C. Punishment
- D. Opposition

2. Intransigent

- A. Fierce
- B. Intrepid
- C. Stubborn
- D. Cowardly

Questions 3 and 4:

Read the short passage given below and answer the two questions that follow it.

The first human in space was the Soviet cosmonaut Yuri Gagarin, who made one orbit around Earth on April 12, 1961, on a flight that lasted 108 minutes. A little more than three weeks later, NASA launched astronaut Alan Shepard into space, not on an orbital flight, but on a suborbital trajectory—a flight that goes into space but does not go all the way around Earth. In addition to launching the first artificial satellite, the first dog in space, and the first human in space, the Soviet Union achieved other space milestones ahead of the United States such as Luna 2, which became the first human-made object to hit the Moon in 1959, a Soviet human mission that orbited a cosmonaut around Earth for a full day, the first spacewalk, and the first woman to travel to space.

During the 1960s, NASA made progress toward President Kennedy's goal of landing a human on the moon with Project Gemini and Project Apollo, with the latter taking astronauts into orbit around the moon and to the lunar surface between 1968 and 1972. In 1969, the United States sent the first astronauts to the Moon on Apollo 11 and Neil Armstrong became the first human to set foot on its surface. During the landed missions, astronauts collected samples of rocks and lunar dust that scientists still study to learn about the moon. NASA's Skylab space station was the first orbital laboratory in which astronauts and scientists studied Earth and the effects of spaceflight on the human body. During the 1970s, NASA also carried out Project Viking in which two probes landed on Mars, took numerous photographs, examined the chemistry of the Martian surface environment, and tested the Martian dirt (called regolith) for the presence of microorganisms.

3. Which of the following is not a valid inference from the above passage?

- A. The Soviets were the first to launch a space station.
- B. A Russian woman was the first woman to go into space.
- C. NASA's Skylab space station fell out of orbit and into the Indian Ocean.
- D. Instruments launched into space and those on the ground have made important discoveries.

4. Which of the following can be fairly concluded from the above passage?

- A. The US and USSR were in a race for space exploration from the late 1950s.
- B. Luna 2 took the first human into space in 1959.
- C. The Viking explorations of NASA have established the presence of microorganisms in the soil on Mars.
- D. Unpiloted probes have proved useful in making discoveries of water on the moon.

Question 5:

In the question, a sentence with two blanks is given. There are four answer options, each with a pair of words, the first word corresponding to the first blank and the second to the second blank. Choose the option that best fills in the blanks.

5. We go to a dictionary to look up a familiar word, in order to find more _____ and depth unlike an unfamiliar word where we want to check the meaning and _____.

- A. antonyms; options
 - B. nuance; pronunciation
 - C. synonyms; uses
 - D. examples; origin
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Quantitative Aptitude

Question 1.

A vessel is filled with a mixture of 70% paint and 30% water. Then one-fourth of the mixture is removed and replaced with water. The ratio of paint to water in the new mixture is

- A. 21:19
- B. 19:21
- C. 21:40
- D. 19:40

Question 2.

The sum of all possible values of x satisfying $\frac{\log_2(x^2 - 9)}{\log_2(x - 3)} = 3$, is _____

Question 3.

If a, b, c are in an arithmetic progression such that the common difference is half the middle term. Then, $\frac{a}{b} + \frac{b}{c} + \frac{c}{a} =$

- A. $\frac{25}{6}$
- B. $\frac{25}{3}$
- C. $\frac{19}{6}$
- D. $\frac{19}{3}$

Question 4.

A boat is set to a particular “still-water-speed”, i.e. speed at which it would travel in still water. At this still-water-speed setting, when this boat enters a river it takes 1 hour to travel downstream from port A to port B. However, if the original still-water-speed is doubled then it takes 3 hours to travel upstream from B to A. Then the time taken (in minutes) by the boat to travel upstream from B to A if the still-water-speed is set to eight times the original value, is:

- A. 10
- B. 20
- C. 30
- D. 40

Question 5.

The sum of all 2-digit natural numbers is:

- A. 5005
 - B. 4905
 - C. 5050
 - D. 4950
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