

OJEE Integrated MBA Sample Paper 02

A) Mode and Time: The exam is a Computer Based Test (CBT) lasting 60 minutes.

B) Total Questions: The exam contains 60 questions.

C) Marking Scheme & Rules:

- +4 marks for each correct answer and -1 mark for every incorrect response.

Q1. 3, 8, 15, 24, ?

- A. 31
- B. 33
- C. 35
- D. 37

Q2. A, C, F, J, O, ?

- A. S
- B. T
- C. U
- D. V

Q3. If WATER is coded as YCVGT, how is EARTH coded?

- A. GCTVJ
- B. FDSUI
- C. HDUWK
- D. GCUVI

Q4. Pointing to a man, a woman said, "His mother is the only daughter of my mother." How is the woman related to the man?

- A. Sister
- B. Aunt
- C. Mother
- D. Grandmother

Q5. A girl walks 30m South, takes a left turn and walks 40m. How far is she from the starting point?

- A. 50m
- B. 70m
- C. 10m
- D. 60m

Q6. Statements: All books are papers. No paper is a pen. Conclusions: I. No book is a pen. II. Some papers are books.

- A. Only I follows
- B. Only II follows
- C. Both I and II follow
- D. Neither I nor II follows

Q7. Clock : Time :: Odometer : ?

- A. Speed
- B. Distance
- C. Fuel
- D. Acceleration

Q8. Which of the following is different from the rest?

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

Q9. Arrange the following logically: 1. Seed 2. Plant 3. Fruit 4. Food

- A. 1, 2, 3, 4
- B. 1, 3, 2, 4
- C. 2, 1, 3, 4
- D. 4, 3, 2, 1

Q10. Statement: "All students in the class passed the exam. Raj is a student in the class." Conclusion: Raj passed the exam.

- A. Definitely True
- B. Probably True
- C. Definitely False
- D. Cannot be determined

Q11. Which diagram best represents the relationship between: 'Day, Week, Year'?

- A. Three separate circles
- B. Two intersecting circles
- C. Three concentric circles
- D. One circle inside another, intersecting a third

Q12. What is the angle between the hour and minute hands of a clock exactly at 4:00?

- A. 90 degrees
- B. 100 degrees
- C. 120 degrees
- D. 150 degrees

Q13. If January 1, 2024 was a Monday, what day of the week was January 1, 2025?

- A. Monday
- B. Tuesday
- C. Wednesday
- D. Thursday

Q14. Five people (P, Q, R, S, T) are sitting in a row facing North. P is to the immediate left of Q. R is to the immediate right of Q. S is to the immediate right of R. T is to the immediate left of P. Who is sitting in the middle?

- A. P
- B. Q
- C. R
- D. S

Q15. In a row of trees, a mango tree is 15th from the left end and 15th from the right end. How many trees are there in the row?

A. 28

B. 29

C. 30

D. 31

Q16. What is 25% of 40% of 800?

A. 60

B. 70

C. 80

D. 90

Q17. An article was bought for Rs. 400 and sold for Rs. 500. What is the profit percentage?

A. 15%

B. 20%

C. 25%

D. 30%

Q18. What is the simple interest earned on Rs. 5000 at a rate of 8% per annum for 3 years?

A. Rs. 1000

B. Rs. 1100

C. Rs. 1200

D. Rs. 1500

Q19. A can do a piece of work in 20 days, and B can do it in 30 days. If they work together, in how many days will they finish the work?

A. 10 days

B. 12 days

C. 15 days

D. 25 days

Q20. A car travels 216 km in 4 hours. What is its speed in meters per second (m/s)?

A. 12 m/s

B. 15 m/s

C. 18 m/s

D. 20 m/s

Q21. If $2A = 3B = 4C$, what is the ratio of A:B:C?

A. 2:3:4

B. 4:3:2

C. 6:4:3

D. 3:4:6

Q22. The average of 10 numbers is 15. If each number is multiplied by 2, what will be the new average?

A. 15

B. 17

C. 30

D. 45

Q23. What is the Least Common Multiple (LCM) of 12, 15, and 20?

A. 60

B. 120

C. 180

D. 240

Q24. Solve for x: $3x - 5 = x + 11$

A. 6

B. 7

C. 8

D. 9

Q25. What is the volume of a cube with a side length of 5 cm?

A. 25 sq. cm

B. 125 cubic cm

- C. 150 sq. cm
- D. 150 cubic cm

Q26. A fair coin is tossed three times. What is the probability of getting exactly two heads?

- A. $\frac{1}{8}$
- B. $\frac{1}{4}$
- C. $\frac{3}{8}$
- D. $\frac{1}{2}$

Q27. In how many different ways can the letters of the word "BOOK" be arranged?

- A. 12
- B. 24
- C. 6
- D. 48

Q28. The ratio of the present ages of A and B is 3:4. After 5 years, the new ratio of their ages will be 4:5. What is the present age of A?

- A. 10 years
- B. 15 years
- C. 20 years
- D. 25 years

Q29. What is the sum of $\frac{1}{3}$, $\frac{1}{4}$, and $\frac{1}{12}$?

- A. $\frac{1}{2}$
- B. $\frac{2}{3}$
- C. $\frac{3}{4}$
- D. $\frac{5}{12}$

Q30. A 60-liter mixture of milk and water contains them in the ratio of 2:1. How much water must be added to make the ratio of milk to water 1:2?

- A. 20 liters
- B. 40 liters

C. 60 liters

D. 80 liters

Q31. Choose the synonym for the word: CANDID

A. Deceptive

B. Frank

C. Secretive

D. Rude

Q32. Choose the antonym for the word: EPHEMERAL

A. Permanent

B. Short-lived

C. Temporary

D. Fading

Q33. What does the idiom "Bite the bullet" mean?

A. To eat very quickly

B. To endure a painful or difficult situation

C. To attack an enemy

D. To give up easily

Q34. Which part of the sentence contains an error? (A) She is / (B) one of the best / (C) student in the class. / (D) No error.

A. A

B. B

C. C

D. D

Q35. Fill in the blank: The politician was accused corruption.

A. with

B. of

C. for

D. about

Q36. Fill in the blank: By this time tomorrow, I my assignment.

- A. will finish
- B. will have finished
- C. have finished
- D. had finished

Q37. Rearrange the following logically: P. It was very cold outside. Q. So, I put on a thick heavy jacket. R. I woke up early in the morning.

- A. P, R, Q
- B. R, P, Q
- C. Q, P, R
- D. R, Q, P

Q38. A person who cannot read or write is called:

- A. Illiterate
- B. Ignorant
- C. Infallible
- D. Invincible

Q39. BIRD : AVIARY :: BEES : ?

- A. Aquarium
- B. Apiary
- C. Burrow
- D. Hive

Q40. Choose the correctly spelled word.

- A. Embarrass
- B. Embarass
- C. Embarras
- D. Emmbarrass

Q41. "He is senior than me in the company." Choose the correct replacement for the underlined part.

- A. senior to I
- B. senior to me
- C. more senior than me
- D. No correction required

Q42. To "call off" an event means to:

- A. Postpone it
- B. Start it
- C. Cancel it
- D. Celebrate it

Q43. Convert to passive voice: "They are building a house."

- A. A house is built by them.
- B. A house was being built by them.
- C. A house is being built by them.
- D. A house has been built by them.

Q44. Convert to indirect speech: She said, "I will come."

- A. She said that she will come.
- B. She said that she would come.
- C. She says that she will come.
- D. She told that she would come.

Q45. "Leadership is the ability to translate vision into reality by inspiring and guiding others toward a common goal." According to the text, what does leadership translate into reality?

- A. Goals
- B. Hard work
- C. Vision
- D. Inspiration

Q46. In business ethics, what does CSR stand for?

- A. Corporate Social Responsibility

- B. Company Sales Ratio
- C. Customer Service Representative
- D. Centralized System Regulation

Q47. In economics, "Inflation" primarily refers to:

- A. A decrease in money supply
- B. A general increase in prices over time
- C. An increase in the value of currency
- D. A drop in employment rates

Q48. Who is the current CEO of Apple Inc. (as of recent years)?

- A. Steve Jobs
- B. Tim Cook
- C. Elon Musk
- D. Mark Zuckerberg

Q49. In financial markets, what is a "Bull Market"?

- A. A market where share prices are falling
- B. A market characterized by low trading volumes
- C. A market in which share prices are rising
- D. A market restricted to institutional investors

Q50. On a standard income statement, the "bottom line" refers to:

- A. Gross Profit
- B. Operating Expenses
- C. Net Income / Net Profit
- D. Total Revenue

Q51. Which is the largest continent on Earth by land area?

- A. Africa
- B. North America
- C. Europe

D. Asia

Q52. Where is the headquarters of the World Bank located?

- A. New York, USA
- B. Geneva, Switzerland
- C. Washington D.C., USA
- D. London, UK

Q53. In the Indian financial system, PAN stands for:

- A. Personal Account Number
- B. Permanent Account Number
- C. Primary Asset Number
- D. Public Account Node

Q54. In the context of commerce, B2C stands for:

- A. Business to Corporation
- B. Buyer to Consumer
- C. Business to Consumer
- D. Brand to Customer

Q55. "Think Different" is the famous advertising slogan of which technology company?

- A. IBM
- B. Microsoft
- C. Intel
- D. Apple

Q56. In macroeconomics, GDP stands for:

- A. Gross Domestic Product
- B. Global Development Policy
- C. General Domestic Price
- D. Gross Development Profit

Q57. In the Indian banking sector, what does NEFT stand for?

- A. National Economic Fund Transaction
- B. New Electronic Financial Transfer
- C. National Electronic Funds Transfer
- D. National Exchange for Funds Trading

Q58. The luxury car brand "Audi" originated in which country?

- A. Italy
- B. Germany
- C. United Kingdom
- D. USA

Q59. In the startup ecosystem, an "Angel Investor" is typically:

- A. A bank providing a corporate loan
- B. A government agency offering grants
- C. An affluent individual providing capital for a business start-up
- D. A stockbroker managing mutual funds

Q60. In strategic management, SWOT analysis stands for:

- A. Sales, Workforce, Objectives, Tactics
- B. Strengths, Weaknesses, Opportunities, Threats
- C. Strategies, Wealth, Operations, Targets
- D. Systems, Workflows, Output, Technology

Solutions

1. C

Explanation: The logic is: $n^2 - 1$. ($2^2 - 1 = 3$; $3^2 - 1 = 8$; $4^2 - 1 = 15$; $5^2 - 1 = 24$). Therefore, the next term is $6^2 - 1 = 35$.

2. U

Explanation: The letters jump by an increasing number of positions: A(+2)=C, C(+3)=F, F(+4)=J, J(+5)=O. The next is O(+6) = U.

3. A

Explanation: Each letter is shifted forward by 2 positions in the alphabet. W(+2)=Y, A(+2)=C, etc. Applying this to EARTH: E(+2)=G, A(+2)=C, R(+2)=T, T(+2)=V, H(+2)=J. Result: GCTVJ.

4. C

Explanation: "The only daughter of my mother" is the woman speaking. Therefore, she is saying, "His mother is me." This makes the woman the mother of the man.

5. A

Explanation: Walking 30m South and then turning left (East) for 40m creates a right-angled triangle. Using the Pythagorean theorem: $\sqrt{30^2 + 40^2} = \sqrt{900 + 1600} = \sqrt{2500} = 50m$.

6. C

Explanation: Since all books are inside the "papers" circle, and no paper touches the "pen" circle, no book can touch a pen (I follows). Because all books are papers, it naturally implies some papers are books (II follows). Both conclusions are valid.

7. B

Explanation: A clock is an instrument used to measure time. An odometer is an instrument in a vehicle used to measure the distance traveled.

8. D

Explanation: A square, rectangle, and triangle are all two-dimensional (2D) planar figures. A cube is a three-dimensional (3D) solid object.

9. A

Explanation: The logical biological progression of agriculture is: planting the Seed (1), which grows into a Plant (2), which produces Fruit (3), which is eventually consumed as Food (4).

10. A

Explanation: The first premise establishes that passing the exam applies unconditionally to "all students." Since the second premise confirms Raj is a student in that class, it is definitely true that he passed.

11. C

Explanation: A Day is entirely contained within a Week, and a Week is entirely contained within a Year. This hierarchical relationship is best represented by three concentric circles.

12. C

Explanation: The angle between the hands of a clock is calculated as $|30H - 5.5M|$.

At 4:00, $M = 0$. Angle = $|30(4) - 0| = 120^\circ$.

13. C

Explanation: The year 2024 is a leap year (366 days). Therefore, passing exactly one year to January 1, 2025, advances the day of the week by 2 days ($366 \pmod{7} = 2$). Monday + 2 days = Wednesday.

14. B

Explanation: Analyzing the seating from left to right based on the clues: T is left of P. P is left of Q. R is right of Q. S is right of R. The linear arrangement is T - P - Q - R - S. The middle person is Q.

15. B

Explanation: Total items in a row = (Position from left + Position from right) - 1. Therefore, $(15 + 15) - 1 = 29$ trees.

16. C

Explanation: Calculate step-by-step: 40% of 800 = 320. Next, find 25% of 320. $0.25 \times 320 = 80$.

17. C

Explanation: Profit = Selling Price (SP) - Cost Price (CP) = $500 - 400 = 100$. Profit Percentage = $(Profit/CP) \times 100 = (100/400) \times 100 = 25\%$.

18. C

Explanation: Simple Interest = $\frac{P \times R \times T}{100} = \frac{5000 \times 8 \times 3}{100} = 1200$. The interest earned is Rs. 1200.

19. B

Explanation: A's 1-day work = $1/20$. B's 1-day work = $1/30$. Together in 1 day = $1/20 + 1/30 = 3/60 + 2/60 = 5/60 = 1/12$. Therefore, they will finish the work in 12 days.

20. B

Explanation: First, find the speed in km/hr: $216/4 = 54$ km/hr. To convert km/hr to m/s, multiply by $5/18$. $54 \times (5/18) = 15$ m/s.

21. C

Explanation: Let $2A = 3B = 4C = k$. Then $A = k/2$, $B = k/3$, and $C = k/4$. To find the ratio, multiply by the LCM of 2, 3, and 4 (which is 12). $A : B : C = 6 : 4 : 3$.

22. C

Explanation: A property of averages states that if every observation in a dataset is multiplied by a constant k , the new average is also multiplied by k . Thus, $15 \times 2 = 30$.

23. A

Explanation: The LCM of 12, 15, and 20 is the smallest number divisible by all three. $12 = 2^2 \times 3$, $15 = 3 \times 5$, $20 = 2^2 \times 5$. $LCM = 2^2 \times 3 \times 5 = 4 \times 15 = 60$.

24. C

Explanation: Given $3x - 5 = x + 11$. Subtract x from both sides: $2x - 5 = 11$. Add 5 to both sides: $2x = 16$. Divide by 2: $x = 8$.

25. B

Explanation: The volume of a cube is calculated as $side^3$. For a side of 5 cm, the

volume is $5 \times 5 \times 5 = 125$ cubic cm.

26. C

Explanation: The probability of heads in one toss is $1/2$. The number of ways to get exactly 2 heads in 3 tosses is given by combinations: ${}^3C_2 = 3$. Total possible outcomes $= 2^3 = 8$. Probability $= 3/8$.

27. A

Explanation: The word "BOOK" has 4 letters, with the letter 'O' repeating twice. The number of arrangements is $4!/2! = (4 \times 3 \times 2 \times 1)/(2 \times 1) = 12$.

28. B

Explanation: Let A's age be $3x$ and B's age be $4x$. After 5 years: $(3x + 5)/(4x + 5) = 4/5$. Cross-multiplying: $15x + 25 = 16x + 20 \Rightarrow x = 5$. Present age of A $= 3(5) = 15$ years.

29. B

Explanation: Find a common denominator (12) to add the fractions: $(4/12) + (3/12) + (1/12) = 8/12$. Simplifying the fraction gives $2/3$.

30. C

Explanation: In the 60L mixture (ratio 2:1), Milk = 40L, Water = 20L. We want the new ratio of Milk to Water to be 1:2. Since Milk remains 40L, Water must become 80L. Thus, $80 - 20 = 60$ liters of water must be added.

31. B

Explanation: "Candid" means truthful, straightforward, and frank.

32. A

Explanation: "Ephemeral" describes something that lasts for a very short time. Its direct antonym is "Permanent".

33. B

Explanation: To "bite the bullet" means to decide to do something difficult or unpleasant that one has been putting off, enduring the pain or difficulty with courage.

34. C

Explanation: The phrase "one of the" must always be followed by a plural noun because it refers to one item within a larger group. It should be "one of the best students".

35. B

Explanation: The verb "accused" is idiomatically followed by the preposition "of" (e.g., accused of a crime, accused of corruption).

36. B

Explanation: The phrase "By this time tomorrow" indicates an action that will be completed before a specific time in the future, requiring the future perfect tense "will have finished".

37. B

Explanation: The logical chronological flow is: Waking up in the morning (R), observing that it was very cold outside (P), and consequently deciding to put on a heavy jacket (Q).

38. A

Explanation: An illiterate person is defined as someone who is unable to read or write.

39. B

Explanation: An aviary is a large enclosure specifically used for keeping birds. Similarly, an apiary is a place where bees are kept.

40. A

Explanation: The correct spelling of the word meaning to cause someone to feel awkward or self-conscious is "Embarrass" (double 'r' and double 's').

41. B

Explanation: The adjective "senior" is always followed by the preposition "to" rather than the conjunction "than" in English grammar.

42. C

Explanation: The phrasal verb "call off" means to cancel an event, agreement, or schedule that was previously planned.

43. C

Explanation: To convert the present continuous active voice ("are building") to passive, the structure "is/are being + past participle" is used ("is being built").

44. B

Explanation: When changing direct speech to indirect speech with a past tense reporting verb ("said"), the future auxiliary "will" changes to its past equivalent "would".

45. C

Explanation: The passage explicitly defines leadership as the ability to translate a conceptual "vision" into a tangible "reality."

46. A

Explanation: Corporate Social Responsibility (CSR) refers to business practices involving initiatives that benefit society, going beyond purely profit-driven motives.

47. B

Explanation: Inflation is an economic term that describes the general, sustained upward movement of prices for goods and services in an economy over time.

48. B

Explanation: Tim Cook took over as the Chief Executive Officer of Apple Inc. in 2011, succeeding the company's co-founder Steve Jobs.

49. C

Explanation: A bull market is a financial market condition in which prices of securities (like stocks) are rising or are expected to rise.

50. C

Explanation: The "bottom line" on an income statement literally sits at the bottom of the report and represents the Net Income or Net Profit after all expenses and taxes have been deducted.

51. D

Explanation: Asia is the largest continent on Earth, both by land area and by population, covering about 30% of the Earth's total land area.

52. C

Explanation: The headquarters of the World Bank Group, an international financial institution that provides loans and grants, is located in Washington, D.C., USA.

53. B

Explanation: Issued by the Income Tax Department of India, PAN stands for Permanent Account Number, a unique 10-character alphanumeric identifier.

54. C

Explanation: B2C (Business-to-Consumer) refers to the process of businesses selling products and services directly to the end consumer, bypassing third-party retailers or wholesalers.

55. D

Explanation: "Think Different" was a highly successful advertising slogan used by Apple Computer, Inc. from 1997 to 2002.

56. A

Explanation: Gross Domestic Product (GDP) is the total monetary or market value of all the finished goods and services produced within a country's borders in a specific time period.

57. C

Explanation: National Electronic Funds Transfer (NEFT) is an electronic funds transfer system maintained by the Reserve Bank of India, enabling nationwide money transfers.

58. B

Explanation: Audi is a renowned luxury automotive manufacturer headquartered in Ingolstadt, Bavaria, Germany.

59. C

Explanation: An angel investor is typically a high-net-worth individual who provides financial backing for small startups or entrepreneurs, often in exchange for ownership equity in the company.

60. B

Explanation: SWOT analysis is a strategic planning framework used to identify and analyze a business's internal Strengths and Weaknesses, as well as its external Opportunities and Threats.