

OJEE Integrated MBA Sample Paper 03

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. 2, 6, 12, 20, 30, ?

- A. 40
- B. 42
- C. 44
- D. 48

Q2. D, H, L, P, T, ?

- A. V
- B. W
- C. X
- D. Y

Q3. If ROAD is coded as URDG, how is SWAN coded?

- A. VZDQ
- B. VXCQ
- C. UYBP
- D. VZDP

Q4. Pointing to a man, a woman says, "He is the father of my only daughter's brother." How is the man related to the woman?

- A. Brother
- B. Uncle
- C. Husband
- D. Father

Q5. A person walks 5 km North, turns right and walks 10 km, then turns right again and walks 5 km. How far is he from the starting point?

- A. 10 km
- B. 15 km
- C. 20 km
- D. 5 km

Q6. Statements: All pens are pencils. No pencil is an eraser. Conclusions: I. No pen is an eraser. II. Some pencils are pens.

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

Q7. Eye : Blindness :: Ear : ?

- A. Hearing
- B. Sound
- C. Deafness
- D. Auditory

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

- A. Dog
- B. Cat
- C. Cow
- D. Tiger

Q9. Arrange the following in a logical sequence: 1. Yarn 2. Plant 3. Cotton 4. Cloth 5. Shirt

- A. 2, 3, 1, 4, 5
- B. 2, 1, 3, 4, 5
- C. 3, 2, 1, 4, 5
- D. 2, 3, 1, 5, 4

Q10. Statement: "All athletes are fit. John is an athlete." Conclusion: John is fit.

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

Q11. Which diagram best represents the relationship between: 'Women, Mothers, Widows'?

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

Q12. What is the angle between the hour and minute hands of a clock exactly at 3:15?

- A. 0 degrees
- B. 7.5 degrees
- C. 15 degrees
- D. 22.5 degrees

Q13. If 1st January 2016 was a Friday, what day of the week was 1st January 2017?

- A. Saturday
- B. Sunday
- C. Monday
- D. Tuesday

Q14. A, B, C, D, and E are sitting in a row facing North. C is in the middle. A is to the immediate left of B. E is to the immediate right of D. If B is to the immediate left of C, who is at the extreme right?

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

Q15. In a row of 40 students, Amit is 15th from the right end. What is his position from the left end?

- A. 24th
- B. 25th
- C. 26th
- D. 27th

Q16. What is 30% of 40% of 2000?

- A. 120
- B. 240
- C. 360
- D. 480

Q17. A shopkeeper sells an item for Rs. 720 at a 10% loss. What was the cost price of the item?

- A. Rs. 750
- B. Rs. 792
- C. Rs. 800
- D. Rs. 820

Q18. What is the difference between Simple Interest and Compound Interest on Rs. 1000 for 2 years at 10% per annum?

- A. Rs. 5
- B. Rs. 10
- C. Rs. 15
- D. Rs. 20

Q19. A can complete a piece of work in 12 days, and B can do it in 24 days. If they work together, in how many days will they finish the work?

- A. 6 days
- B. 8 days
- C. 9 days
- D. 10 days

Q20. A car covers a distance of 360 km in 5 hours. What is its speed in meters per second (m/s)?

- A. 15 m/s
- B. 18 m/s
- C. 20 m/s
- D. 25 m/s

Q21. If $A:B = 3:4$ and $B:C = 8:9$, what is the ratio of $A:C$?

- A. 2:3
- B. 3:4
- C. 4:9
- D. 8:9

Q22. What is the average of the first 10 natural numbers?

- A. 5
- B. 5.5
- C. 6
- D. 10

Q23. What is the unit digit of 3^{45} ?

- A. 1
- B. 3
- C. 7
- D. 9

Q24. If $x + y = 10$ and $x - y = 4$, what is the value of xy ?

- A. 16
- B. 21
- C. 24
- D. 25

Q25. The diagonal of a square is $10\sqrt{2}$ cm. What is its perimeter?

- A. 20 cm
- B. 40 cm
- C. 80 cm
- D. 100 cm

Q26. A card is drawn at random from a standard deck of 52 playing cards. What is the probability that it is a King?

- A. $\frac{1}{13}$
- B. $\frac{1}{4}$
- C. $\frac{4}{13}$
- D. $\frac{1}{52}$

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

- A. 24
- B. 60
- C. 120
- D. 720

Q28. A is twice as old as B. Five years ago, A was 3 times as old as B. What is B's present age?

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

Q29. What is the sum of $\frac{1}{2}$, $\frac{1}{4}$, and $\frac{1}{8}$?

- A. $\frac{3}{8}$
- B. $\frac{5}{8}$
- C. $\frac{7}{8}$
- D. 1

Q30. A 50-liter mixture of milk and water contains them in the ratio of 3:2. How much water must be added to make the ratio 1:1?

- A. 5 liters
- B. 10 liters
- C. 15 liters
- D. 20 liters

Q31. Choose the synonym for the word: ABOLISH

- A. Eradicate
- B. Support
- C. Establish
- D. Promote

Q32. Choose the antonym for the word: AMATEUR

- A. Beginner
- B. Novice
- C. Professional
- D. Apprentice

Q33. What does the idiom "Piece of cake" mean?

- A. A tasty dessert
- B. A very easy task
- C. A difficult challenge
- D. A small portion

Q34. Which part of the sentence contains an error? (A) Neither of the boys / (B) are / (C) going to the party. / (D) No error.

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

Q35. Fill in the blank: He jumped the river to save the drowning child.

- A. in
- B. into

C. on

D. at

Q36. Fill in the blank: By next month, I my project.

A. will complete

B. will have completed

C. have completed

D. completed

Q37. Rearrange the following logically: P. She opened the book. Q. She went to the library. R. She started reading.

A. P, Q, R

B. Q, R, P

C. Q, P, R

D. R, P, Q

Q38. A person who speaks many languages is called a:

A. Linguist

B. Polyglot

C. Introvert

D. Philologist

Q39. BIRD : FEATHER :: FISH : ?

A. Gills

B. Water

C. Scale

D. Fin

Q40. Choose the correctly spelled word.

A. Vacuum

B. Vaccum

C. Vacume

D. Vaccume

Q41. "She prefers tea than coffee." Choose the correct replacement for the underlined part.

- A. prefers tea over coffee
- B. prefers tea to coffee
- C. prefers tea more than coffee
- D. No correction required

Q42. The phrasal verb "look into" means:

- A. To observe from a distance
- B. To ignore
- C. To investigate
- D. To anticipate

Q43. Convert to passive voice: "The cat chased the mouse."

- A. The mouse was chased by the cat.
- B. The mouse is being chased by the cat.
- C. The mouse has been chased by the cat.
- D. The mouse had chased the cat.

Q44. Convert to indirect speech: He said, "I have won the match."

- A. He said that he has won the match.
- B. He said that he had won the match.
- C. He said that he won the match.
- D. He told he won the match.

Q45. "Marketing is the activity, set of institutions, and processes for creating, communicating, delivering, and exchanging offerings that have value for customers, clients, partners, and society at large." According to the text, what does marketing create and exchange?

- A. Institutions
- B. Processes
- C. Offerings that have value
- D. Society at large

Q46. In the corporate hierarchy, CEO stands for:

- A. Central Executive Officer
- B. Chief Executive Officer
- C. Chief Engineering Officer
- D. Corporate Executive Official

Q47. In India, the Repo Rate is determined by which organization?

- A. Ministry of Finance
- B. State Bank of India
- C. Reserve Bank of India
- D. NITI Aayog

Q48. Which technology company owns the gaming brand "Xbox"?

- A. Sony
- B. Nintendo
- C. Microsoft
- D. Tencent

Q49. In the stock market, "Blue-chip" stocks refer to:

- A. Stocks of new, high-risk startups
- B. Stocks of well-established, financially sound companies
- C. Penny stocks with high volatility
- D. Stocks belonging only to the IT sector

Q50. In e-commerce terminology, B2C stands for:

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

Q51. What is the capital city of Australia?

- A. Sydney

B. Melbourne

C. Canberra

D. Perth

Q52. Where is the headquarters of the World Health Organization (WHO) located?

A. New York, USA

B. Geneva, Switzerland

C. London, UK

D. Paris, France

Q53. The financial year in India begins on which date?

A. January 1

B. March 31

C. April 1

D. July 1

Q54. The "Make in India" initiative was launched by the Government of India in which year?

A. 2012

B. 2014

C. 2016

D. 2018

Q55. "I'm Lovin' It" is the famous advertising tagline of which global brand?

A. KFC

B. Burger King

C. McDonald's

D. Subway

Q56. Who is the current CEO of Tesla, Inc.?

A. Jeff Bezos

B. Elon Musk

C. Tim Cook

D. Satya Nadella

Q57. An IFSC code, used for electronic payment applications in India, consists of how many alphanumeric characters?

- A. 9
- B. 10
- C. 11
- D. 12

Q58. Which tax was introduced in 2017 to replace multiple indirect taxes in India?

- A. Income Tax
- B. Value Added Tax (VAT)
- C. Goods and Services Tax (GST)
- D. Wealth Tax

Q59. In business and international relations, what does MoU stand for?

- A. Method of Understanding
- B. Memorandum of Understanding
- C. Module of Undertaking
- D. Ministry of Union

Q60. In the startup ecosystem, what is an "Incubator"?

- A. A device used to test hardware prototypes
- B. A government tax rebate program
- C. An organization that helps startups develop by providing workspace and mentoring
- D. A venture capital firm exclusively investing in healthcare

Solutions

1. B

Explanation: The logic relies on multiplying consecutive integers: $1 \times 2 = 2$, $2 \times 3 = 6$, $3 \times 4 = 12$, $4 \times 5 = 20$, $5 \times 6 = 30$. The next term is $6 \times 7 = 42$.

2. C

Explanation: Each letter advances by exactly 4 positions in the English alphabet: $D(+4)=H$, $H(+4)=L$, $L(+4)=P$, $P(+4)=T$. Therefore, $T(+4)=X$.

3. A

Explanation: Each letter in the word is shifted forward by 3 positions. $R(+3)=U$, $O(+3)=R$, $A(+3)=D$, $D(+3)=G$. Applying this to SWAN: $S(+3)=V$, $W(+3)=Z$, $A(+3)=D$, $N(+3)=Q$.

4. C

Explanation: The woman says "my only daughter's brother," which simply means her own son. The man she is pointing to is the father of her son. Therefore, the man is her husband.

5. A

Explanation: He walks 5 km North, turns right (East) for 10 km, then turns right again (South) for 5 km. This creates a rectangular path. He is exactly 10 km East of his starting point.

6. C

Explanation: All pens are strictly inside the pencils circle. Since no pencil is an eraser, no pen can possibly be an eraser (I follows). Because all pens are pencils, naturally some pencils must be pens (II follows). Both are true.

7. C

Explanation: Blindness is the condition of lacking the sense of sight (associated with the Eye). Deafness is the condition of lacking the sense of hearing (associated with the Ear).

8. D

Explanation: A dog, cat, and cow are all typically kept as domestic animals or livestock. A tiger is a wild animal, making it the odd one out.

9. A

Explanation: The logical sequence of producing a cotton shirt is: A cotton Plant (2) produces Cotton (3), which is spun into Yarn (1), woven into Cloth (4), and finally stitched into a Shirt (5).

10. A

Explanation: The first statement provides a universal rule that every single athlete is fit. Since John belongs to the category of athletes, he must logically inherit the trait of being fit.

11. C

Explanation: All mothers and all widows are inherently women (both fit inside the large "Women" circle). Some mothers can be widows and vice versa, so their circles intersect within the larger circle.

12. B

Explanation: The angle between the hands of a clock is found using $|30H - 5.5M|$. For 3:15, Angle = $|30(3) - 5.5(15)| = |90 - 82.5| = 7.5$ degrees.

13. B

Explanation: 2016 was a leap year, so it had 366 days. The remainder when 366 is divided by 7 is 2. Therefore, the same date in the next year shifts forward by 2 days. Friday + 2 days = Sunday.

14. D

Explanation: C is in the middle: _ _ C _ . B is immediately left of C: _ B C _ . A is immediately left of B: A B C _ . D and E must fill the right spots, with E right of D: A B C D E. Thus, E is at the extreme right.

15. C

Explanation: Position from left = (Total students - Position from right) + 1. Therefore, $(40 - 15) + 1 = 25 + 1 = 26th$.

16. B

Explanation: First calculate 40% of 2000, which is $(40/100) \times 2000 = 800$. Next, calculate 30% of 800, which is $(30/100) \times 800 = 240$.

17. C

Explanation: Let the Cost Price (CP) be x . A 10% loss means Selling Price (SP) = $0.9x$. We are given $0.9x = 720$. Solving for x : $x = 720/0.9 = Rs.800$.

18. B

Explanation: The difference between CI and SI for 2 years on a principal P at rate R is given by $P(R/100)^2$. Thus, Difference = $1000 \times (10/100)^2 = 1000 \times 0.01 = Rs.10$.

19. B

Explanation: A's 1-day work = $1/12$. B's 1-day work = $1/24$. Working together in 1 day = $1/12 + 1/24 = 2/24 + 1/24 = 3/24 = 1/8$. Thus, they will complete the work in 8 days.

20. C

Explanation: First, find the speed in km/hr: $360 \text{ km}/5 \text{ hrs} = 72 \text{ km/hr}$. To convert km/hr to m/s, multiply by $5/18$. $72 \times (5/18) = 20 \text{ m/s}$.

21. A

Explanation: The ratio $A : C$ can be found by multiplying the two given ratios: $(A/B) \times (B/C) = (3/4) \times (8/9) = 24/36 = 2/3$.

22. B

Explanation: The sum of the first n natural numbers is $n(n+1)/2$. For the first 10, the sum is $10(11)/2 = 55$. The average is $55/10 = 5.5$.

23. B

Explanation: The unit digits of powers of 3 repeat in a cycle of 4: 3, 9, 7, 1. To find the unit digit of 3^{45} , divide the exponent 45 by 4. The remainder is 1. Therefore, it ends in $3^1 = 3$.

24. B

Explanation: Given $x + y = 10$ and $x - y = 4$. Adding the two equations gives $2x = 14$, so $x = 7$. Substituting x back gives $7 + y = 10$, so $y = 3$. The product

$$xy = 7 \times 3 = 21.$$

25. B

Explanation: The diagonal of a square is calculated as $side \times \sqrt{2}$. Given the diagonal is $10\sqrt{2}$, the side length must be 10 cm. The perimeter is $4 \times side = 4 \times 10 = 40$ cm.

26. A

Explanation: A standard deck contains 52 cards in total, and there are 4 Kings in the deck. The probability of drawing a King is $4/52$, which simplifies to $1/13$.

27. B

Explanation: The word "APPLE" has 5 letters, with the letter 'P' repeating twice. The total number of arrangements is $5!/2! = (5 \times 4 \times 3 \times 2 \times 1)/2 = 120/2 = 60$.

28. A

Explanation: Let B's present age be x . A's age is $2x$. Five years ago: $2x - 5 = 3(x - 5)$. Solving this gives $2x - 5 = 3x - 15 \implies x = 10$. B is 10 years old.

29. C

Explanation: To add the fractions, find a common denominator (8). $1/2 = 4/8$ and $1/4 = 2/8$. Thus, $4/8 + 2/8 + 1/8 = 7/8$.

30. B

Explanation: In the 50L mixture (3:2 ratio), Milk = $(3/5) \times 50 = 30$ L, and Water = 20L. To make the ratio 1:1, water must also be 30L. Thus, $30 - 20 = 10$ liters of water must be added.

31. A

Explanation: "Abolish" means to formally put an end to a system, practice, or institution. "Eradicate" is the closest synonym.

32. C

Explanation: An "amateur" is a person who engages in a pursuit on an unpaid rather than a professional basis. Its direct antonym is "Professional".

33. B

Explanation: The idiom "to break the ice" means to do or say something to relieve tension or get conversation going in a strained or formal situation.

34. B

Explanation: In English grammar, the pronoun "neither" is singular. Therefore, it must be followed by a singular verb. The correct phrasing is "Neither of the boys is".

35. B

Explanation: The preposition "into" is used to indicate movement or action resulting in someone or something becoming enclosed or surrounded by something else (like water).

36. B

Explanation: The phrase "By next month" establishes a deadline in the future before which an action will be completed. This requires the future perfect tense "will have completed".

37. C

Explanation: The logical sequence of events starts with visiting the location (Q), taking the book to read (P), and finally initiating the act of reading (R).

38. B

Explanation: A polyglot is a person who knows and is able to use several different languages.

39. C

Explanation: A feather is the natural outer covering on the body of a bird. Similarly, a scale is the natural outer covering on the body of a fish.

40. A

Explanation: The correct spelling of the word meaning a space entirely devoid of matter is "Vacuum" (one 'c' and two 'u's).

41. B

Explanation: The verb "prefer" is idiomatically followed by the preposition "to" rather than "than" when comparing two things.

42. C

Explanation: The phrasal verb "look into" means to investigate, explore, or examine the facts about a situation or problem.

43. A

Explanation: To convert simple past active voice to passive, the object ("the mouse") becomes the subject, followed by "was/were + past participle" ("was chased").

44. B

Explanation: When converting to indirect speech, a present perfect tense inside the quotes ("have won") changes to the past perfect tense ("had won") if the reporting verb is in the past.

45. C

Explanation: The provided text explicitly defines marketing as processes for creating, communicating, delivering, and exchanging "offerings that have value."

46. B

Explanation: CEO stands for Chief Executive Officer, the highest-ranking executive in a company, responsible for making major corporate decisions.

47. C

Explanation: In India, monetary policy tools, including the Repo Rate (the rate at which the central bank lends money to commercial banks), are determined by the Reserve Bank of India (RBI).

48. C

Explanation: Xbox is a highly successful video gaming brand created and owned by the American multinational technology company, Microsoft.

49. B

Explanation: "Blue-chip" stocks belong to massive, well-established, and financially sound companies that have operated for many years and generally yield steady returns.

50. A

Explanation: B2C (Business-to-Consumer) is a business model where businesses sell their products or services directly to individual end-users or consumers.

51. C

Explanation: Canberra is the capital city of Australia, founded following the federation of the colonies of Australia as the seat of government for the new nation.

52. B

Explanation: The World Health Organization (WHO), a specialized agency of the United Nations responsible for international public health, is headquartered in Geneva, Switzerland.

53. C

Explanation: The financial year (or fiscal year) in India runs from April 1 of a given year to March 31 of the following year.

54. B

Explanation: "Make in India" is an initiative launched by the Government of India in 2014 to encourage companies to manufacture their products in India and incentivize dedicated investments.

55. C

Explanation: "I'm Lovin' It" is a widely recognized international branding campaign and slogan launched by the fast-food giant McDonald's in 2003.

56. B

Explanation: Elon Musk is a prominent entrepreneur and business magnate who serves as the CEO and product architect of the electric vehicle manufacturer Tesla, Inc.

57. C

Explanation: An IFSC (Indian Financial System Code) is an 11-character alphanumeric code used to uniquely identify bank branches in India for electronic funds transfer systems like NEFT and RTGS.

58. C

Explanation: The Goods and Services Tax (GST) was implemented in India on July 1, 2017, replacing a complex web of central and state indirect taxes with a unified, destination-based tax.

59. B

Explanation: An MoU (Memorandum of Understanding) is a formal, non-legally binding agreement between two or more parties outlining the terms and details of a mutual understanding or intent to work together.

60. C

Explanation: A startup incubator is a collaborative program designed to help new startups succeed by providing workspace, seed funding, mentoring, and training.