

TANCET MCA Questions 2025

Analytical Reasoning:

1. Question: If "MASTER" is coded as "NBTUFS," then how is "DOCTOR" coded?
○ Solution: Each letter is shifted one position forward in the alphabet. So, "DOCTOR" becomes "EPUUPS."
2. Question: A is taller than B but shorter than C. D is shorter than B. Who is the shortest?
○ Solution: D is the shortest. ($C > A > B > D$)
3. Question: Find the missing number: 2, 5, 10, 17, ?
○ Solution: The pattern is $n^2 + 1$. So, the next number is $4^2 + 1 = 26$.
4. Question: If all pens are pencils and some pencils are erasers, which of the following is true?
○ (a) All pens are erasers. (b) Some pens are erasers. (c) Some pencils are not pens. (d) No pens are erasers.
○ Solution: (c) Some pencils are not pens.
5. Question: If "LION" is related to "CAGE," then "BIRD" is related to it?
○ Solution: NEST.
6. Question: In a row of students, A is 15th from the left and B is 10th from the right. If they interchange positions, A becomes 20th from the left. How many students are there?
○ Solution: $20 + 10 - 1 = 29$ students.
7. Question: Complete the series: ACE, GIK, MOQ, ?
○ Solution: SUW (Each letter advances by two positions).
8. Question: If "PAPER" is written as "OZODQ," how is "PENCIL" written?
○ Solution: ODMBHK (Each letter is shifted one position backwards).
9. Question: A clock gains 5 minutes every hour. If the clock was set right at 6 a.m., what time would it show at 11 a.m.?
○ Solution: 11:25 a.m. (5 hours * 5 minutes/hour = 25 minutes).
10. Question: If '+' means '-', '-' means '×', '×' means '÷', and '÷' means '+', then $16 \times 8 \div 4 + 2 - 10 = ?$
○ Solution: $16 \div 8 + 4 - 2 \times 10 = 2 + 4 - 20 = -14$.

Quantitative Aptitude:

1. Question: What is the average of the first 10 natural numbers?
○ Solution: $(10 * 11) / (2 * 10) = 5.5$.
2. Question: If a train travels at 72 km/h, how far will it travel in 15 minutes?
○ Solution: $(72 * 15) / 60 = 18$ km.
3. Question: If the ratio of boys to girls is 3:5 and there are 40 girls, how many boys are there?
○ Solution: $(3/5) * 40 = 24$ boys.
4. Question: What is the simple interest on Rs. 5000 at 10% per annum for 2 years?
○ Solution: $(5000 * 10 * 2) / 100 = \text{Rs. } 1000$.

5. Question: If $x^2 - 5x + 6 = 0$, find the values of x .
 - Solution: $(x - 2)(x - 3) = 0$. $x = 2, 3$.
6. Question: What is the area of a circle with a radius of 7 cm?
 - Solution: $\pi * 7^2 = 49\pi \approx 154 \text{ cm}^2$.
7. Question: A can do a piece of work in 10 days, and B can do the same work in 15 days. In how many days can they complete the work together?
 - Solution: $1/(1/10 + 1/15) = 6$ days.
8. Question: If the cost price of an item is Rs. 100 and the selling price is Rs. 120, what is the profit percentage?
 - Solution: $(20/100) * 100 = 20\%$.
9. Question: Find the value of $(0.2)^3$.
 - Solution: 0.008.
10. Question: If the length of a rectangle is 12 cm and the breadth is 8 cm, find its perimeter.
 - Solution: $2 * (12 + 8) = 40 \text{ cm}$.

Computer Awareness:

1. Question: What is the full form of RAM?
 - Solution: Random Access Memory.
2. Question: Which is the operating system developed by Google?
 - Solution: Android.
3. Question: What is the function of a compiler?
 - Solution: To convert high-level language to machine language.
4. Question: What is the full form of the URL?
 - Solution: Uniform Resource Locator.
5. Question: Which is the fastest memory in a computer?
 - Solution: Cache memory.
6. Question: What is the binary equivalent of decimal 10?
 - Solution: 1010.
7. Question: What is the purpose of an IP address?
 - Solution: To identify a device on a network.
8. Question: What is the function of a firewall?
 - Solution: To protect a network from unauthorized access.
9. Question: Which is a database management system?
 - Solution: MySQL.
10. Question: What is the full form of CPU?
 - Solution: Central Processing Unit.

TANCET MBA Questions 2025

1. Quantitative Aptitude:

- Question: If a train travels 120 km in 1.5 hours, what is its speed?

- Solution: Speed = Distance / Time = 120 km / 1.5 hours = 80 km/h.
- Question: What is 20% of 150?
 - Solution: $(20/100) * 150 = 30$.
- Question: If the ratio of A: B is 2:3 and B: C is 4:5, find A: C.
 - Solution: A:B = 2:3, B:C = 4:5. Make B equal: A:B = 8:12, B:C = 12:15. So, A:C = 8:15.
- Question: What is the average of 10, 20, 30, 40, and 50?
 - Solution: $(10+20+30+40+50)/5 = 30$
- Question: A person sells an item for Rs. 120 with a 20% profit. What was the cost price?
 - Solution: Cost price = $120 / 1.2 = \text{Rs. } 100$.
- Question: Solve: $x^2 - 5x + 6 = 0$
 - Solution: $(x-2)(x-3)=0$, $x=2,3$.
- Question: What is the area of a circle with a radius of 5cm?
 - Solution: Area = $\pi * r^2 = \pi * 25$.
- Question: if a job takes 6 hours for person A, and 3 hours for person B, how long will it take working together?
 - Solution: 2 hours.
- Question: What is the value of $(.5)^3$?
 - Solution: .125
- Question: If a rectangle has a length of 10 and a width of 5, what is the perimeter?
 - Solution: 30.

2. Analytical Reasoning:

- Question: If "TABLE" is coded as "UBMDF," how is "CHAIR" coded?
 - Solution: Each letter is shifted one position forward. So, "CHAIR" becomes "DIBSJ."
- Question: A is taller than B, and B is taller than C. Who is the tallest?
 - Solution: A.
- Question: Find the next number: 2, 4, 8, 16, ?
 - Solution: 32 (each number is doubled).
- Question: if all cats are animals, and all dogs are animals, can all cats be dogs?
 - Solution: No.
- Question: If "DAY" is related to "NIGHT," then "SUMMER" is related to?
 - Solution: WINTER.
- Question: Complete the series: A2, C4, E6, ?
 - Solution: G8
- Question: if "water" is coded as "tater" what is "paper" coded as?
 - Solution: qaper.
- Question: if a person walks north, then east, then south, in what direction are they from their starting point?
 - Solution: East.
- Question: if a clock gains 2 minutes every hour, how much time will it gain in 6 hours?
 - Solution: 12 minutes.

- Question: if + means -, and - means +, what is $5+3-2$?
 - solution: 4.

3. Reading Comprehension:

- This section requires reading passages and answering questions based on them. Practice with sample passages is key. Due to the length of passages, I cannot provide a full example here. However, focus on:
 - Identifying the main idea.
 - Understanding supporting details.
 - Drawing inferences.
 - Understanding vocabulary.

4. Data Sufficiency:

- Question: Is $x > y$?
 - Statement I: $x + y > 0$
 - Statement II: $x - y > 0$
 - Solution: Statement II alone is sufficient.
- Question: What is the value of x ?
 - Statement I: $2x + y = 10$
 - Statement II: $y = 4$
 - Solution: Both statements are needed.
- Question: Is a number even?
 - Statement I: The number is divisible by 2.
 - Statement II: The number is divisible by 4.
 - Solution: Statement I alone is sufficient.
- Question: What is the area of a rectangle?
 - Statement I: The length is 10.
 - Statement II: The perimeter is 30.
 - solution: Both statements are needed.
- Question: Does person A have more money than person B?
 - Statement I: Person A has more money than person C.
 - Statement II: Person B has less money than Person C.
 - Solution: Neither statement is sufficient.
- Question: what is the value of $x+y$?
 - Statement I: $x=5$
 - Statement II: $y=3$
 - Solution: Both statements are needed.
- Question: What is the price of a book?
 - Statement I: two books cost 20 dollars.
 - Statement II: one book and one pen cost 15 dollars.
 - Solution: Statement I alone is sufficient.
- Question: What is the age of person A?

- Statement I: Person A is older than person B.
 - Statement II: Person B is 20 years old.
 - Solution: Neither statement is sufficient.
- Question: what is the value of x^2 ?
 - Statement I: $x=3$
 - Statement II: $x>0$
 - Solution: Statement I alone is sufficient.
- Question: Is the number a prime number?
 - Statement I: the number is odd.
 - Statement II: the number is not divisible by 3.
 - Solution: Neither statement is sufficient.

5. English Usage:

- Focus on grammar, vocabulary, and sentence correction.
 - Example: Identify the error: "He don't like apples."
 - Correction: "He doesn't like apples."
 - Example: Choose the synonym for "abundant": (a) scarce (b) plentiful (c) rare (d) few.
 - Answer: (b) plentiful.