

# CMAT Question Paper 2023 for Slot 2

## Quant

- $f(x) = |2x| + 4$  for all  $x$ . For which of the following functions the graph  $G(x)$  intersects the graph  $f(x)$ ?
  - $G(x) = x + 3$
  - $G(x) = 2x - 2$
  - $G(x) = 2x + 3$
  - $G(x) = 3x - 2$
- If SP of 320 cameras = CP of 400 cameras what is the profit percentage?
  - 12%
  - 40%
  - 20%
  - 25%
- What is the 95th term of AA, BBB, CCCCCC, \_\_\_\_?
  - H
  - I
  - J
  - K
- Statement 1:** A saving account at Bank A pays 6.2% interest, compounded annually Bank B's savings account pays 6% compounded semi annually Bank B is paying less interest.  
**Statement 2:** A sum of money at a certain rate of compounded interest doubles in 3 years so in 9 years it will become 9 times.
  - Both Statements are True
  - Statement 1 is True and Statement 2 is False
  - Both Statements are False
  - Statement 2 is True and Statement 1 is False
- If  $x > 0$  then 3.6% of  $5x/12 = ?$ 
  - 3% of  $20x$
  - $x\%$  of  $3/2$
  - $3x\%$  of 0
  - 0.05% of  $3x$
- A certain sum of money earns SI of Rs. 800 for 2 years, If CI is Rs.900, what is the sum?

- a. 1200
  - b. 1600
  - c. 2400
  - d. 2000
7. P, Q, R are ages of three-person, Average = 32 years  $P \leq Q \leq R$  if Q 6 more than P, what is the minimum value of R?
- a. 34
  - b. 36
  - c. 38
  - d. 32
8. Statement 1: Son's age:Father's age = 1:5, and the product of their present age is 245, then the ratio of their ages 9 years later will be 3:5  
Statement 2: A milkman adds 30 liters of water to 70 liters of milk. After selling  $\frac{1}{5}$ ths of the mixture he replenishes it with water. Water:Milk is 28:72
- a. Both Statements are True
  - b. Statement 1 is True and Statement 2 is False
  - c. Both Statements are False
  - d. Statement 2 is True and Statement 1 is False
9. Probability of getting the sum of 22 or more in 4 dice throws is
- a.  $\frac{5}{432}$
  - b.  $\frac{5}{648}$
  - c.  $\frac{1}{144}$
  - d.  $\frac{7}{36}$
10. Three pipes P, Q, R can fill a tank in 6 hours. After working for 2 hours, R is closed, and P, Q can fill the remaining tank in 7 hours. Then R alone can fill the tank in:
- a. 10 hrs
  - b. 12 hrs
  - c. 14 hrs
  - d. 16 hrs

## Logical Reasoning

1. Out of 400 students who attended a seminar, 240 opted for written exam, 200 for presentation, 160 for assignment, 20 did not opt for any of the three methods 200 had opted for exactly one of the three methods. How many opted for exactly two of the three methods?
  - a. 140
  - b. 160
  - c. 220
  - d. 170
  
2. Given below are two statements:
  - a. If some students are intelligent is true then some students are not intelligent is also true.
  - b. If all logicians are mathematicians is true then some non-mathematicians are not logicians will be true
    - i. Both a and b are true
    - ii. Both a and b are false
    - iii. Only a is true and b is false
    - iv. Only b is true and a is false
  
3. In a certain code, CAB = 75. How will RULE be written?
  - a. 85
  - b. 64
  - c. 45
  - d. 52
  
4. Identify odd group of letters among CE, IK, SV, FH, UW
  - a. SV
  - b. IK
  - c. UW
  - d. FH

## Innovation and Entrepreneurship

1. Entrepreneur means
  - a. To struggle
  - b. To undertake
  - c. To invent
  - d. To motivate
  
2. Which of the following is not a legitimate way of bringing a new business idea to market?
  - a. Start-up
  - b. Business plan
  - c. Buyout
  - d. Franchise
  
3. Full form of EPCG
  - a. Export Promotion Capital Goods
  - b. Export Promotion Council Goods
  - c. Export Potential of Capital Goods
  - d. Export Promotion Council of Govt
  
4. A person who improves an existing business is called
  - a. Changeling
  - b. Leader
  - c. Professional
  - d. An Entrepreneur

## General Awareness

1. Who was chosen as first Satyagrahi to launch the individual satyagraha in 1940?
  - a. J.L. Nehru
  - b. Bal Gangadhar Tilak
  - c. Brahma Datt
  - d. Acharya Vinoba Bhave
  
2. Who among the following was appointed as V.C. of Delhi Sports University in June 2021?
  - a. PT Usha
  - b. Abhinav Bindra
  - c. Karnam Malleshwari
  - d. Rajyavardhan Rathore
  
3. Who is the author of "The Struggle in my Life"?
  - a. Jomo Kenyatta
  - b. Nelson Mandela
  - c. Frederick
  - d. Bishop Desmond
  
4. Who can dissolve the Lok Sabha before the expiry of its normal tenure of 5 years?
  - a. PM
  - b. President
  - c. President on recommendation of PM
  - d. President on recommendation of Speaker