

CSE (PRELIMS) 2025

General Studies

(Paper-II)

Answer Key & Reflections

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CSE PRELIMINARY EXAM | GENERAL STUDIES (Paper-II) | 2025

	Set			
Q. No.	A	B	C	D
1	(c)	(d)	(a)	(d)
2	(d)	(d)	(d)	(a)
3	(d)	(b)	(a)	(d)
4	(d)	(b)	(d)	(a)
5	(c)	(b)	(c)	(c)
6	(a)	(b)	(d)	(c)
7	(c)	(b)	(b)	(b)
8	(b)	(b)	(d)	(c)
9	(d)	(c)	(b)	(d)
10	(a)	(b)	(c)	(c)
11	(d)	(a)	(c)	(d)
12	(a)	(d)	(d)	(d)
13	(d)	(a)	(d)	(b)
14	(a)	(d)	(d)	(b)
15	(c)	(c)	(c)	(b)
16	(c)	(d)	(a)	(b)
17	(b)	(b)	(c)	(b)
18	(c)	(d)	(b)	(b)
19	(d)	(b)	(d)	(c)
20	(c)	(c)	(a)	(b)
21	(a)	(d)	(d)	(c)
22	(d)	(a)	(d)	(d)
23	(a)	(d)	(b)	(d)
24	(d)	(a)	(b)	(d)
25	(c)	(c)	(b)	(c)
26	(d)	(c)	(b)	(a)
27	(b)	(b)	(b)	(c)
28	(d)	(c)	(b)	(b)
29	(b)	(d)	(c)	(d)
30	(c)	(c)	(b)	(a)
31	(d)	(c)	(d)	(a)
32	(d)	(d)	(a)	(d)
33	(b)	(d)	(d)	(a)
34	(b)	(d)	(a)	(d)
35	(b)	(c)	(c)	(c)
36	(b)	(a)	(c)	(d)
37	(b)	(c)	(b)	(b)
38	(b)	(b)	(c)	(d)
39	(c)	(d)	(d)	(b)
40	(b)	(a)	(c)	(c)

	Set			
Q. No.	A	B	C	D
41	(b)	(b)	(a)	(b)
42	(c)	(d)	(c)	(c)
43	(c)	(d)	(c)	(d)
44	(d)	(b)	(c)	(d)
45	(d)	(d)	(c)	(c)
46	(c)	(c)	(b)	(a)
47	(c)	(c)	(a)	(d)
48	(d)	(a)	(d)	(b)
49	(a)	(a)	(d)	(b)
50	(c)	(c)	(d)	(c)
51	(b)	(a)	(b)	(b)
52	(c)	(c)	(c)	(d)
53	(d)	(c)	(c)	(d)
54	(d)	(c)	(d)	(b)
55	(c)	(c)	(d)	(d)
56	(a)	(b)	(c)	(c)
57	(d)	(a)	(c)	(c)
58	(b)	(d)	(d)	(a)
59	(b)	(d)	(a)	(a)
60	(c)	(d)	(c)	(c)
61	(a)	(b)	(b)	(b)
62	(c)	(c)	(d)	(c)
63	(c)	(d)	(d)	(c)
64	(c)	(d)	(b)	(d)
65	(c)	(c)	(d)	(d)
66	(b)	(a)	(c)	(c)
67	(a)	(d)	(c)	(c)
68	(d)	(b)	(a)	(d)
69	(d)	(b)	(a)	(a)
70	(d)	(c)	(c)	(c)
71	(b)	(b)	(b)	(a)
72	(d)	(c)	(c)	(c)
73	(d)	(c)	(d)	(c)
74	(b)	(d)	(d)	(c)
75	(d)	(d)	(c)	(c)
76	(c)	(c)	(a)	(b)
77	(c)	(c)	(d)	(a)
78	(a)	(d)	(b)	(d)
79	(a)	(a)	(b)	(d)
80	(c)	(c)	(c)	(d)

**Reflections from
NEXT IAS
CSAT Anubhav Test**

5. A solid cube is painted yellow on all its faces. The cube is then cut into 60 smaller but equal pieces by making the minimum number of cuts. Which of the following statements is/are correct?

- I. The minimum number of cuts is 9.
II. The number of smaller pieces which are not painted on any face is 6.

Select the correct answer using the code given below:

- (a) I only
(b) II only
(c) Both I and II
(d) Neither I nor II

Ans. (c)

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46. A large cube is painted on all its six faces. Now it is cut into a certain number of smaller identical cubes. It was found that among the smaller cubes, there were sixty-four cubes which didn't have any face painted. How many small cubes have exactly one face painted?

(a) 24
(b) 48
(c) 72
(d) 96

$n^3 \Rightarrow 64$
 $(n-2)^3 = 64$
 $3 \cdot S.P. \Rightarrow 8$
 $2 \cdot S.P. \Rightarrow 12(n-2)$
 $1 \cdot S.P. \Rightarrow 6(n-2)^2$
 $0 \cdot S.P. \Rightarrow (n-2)^3$

$6(6-2)^2$
 $6 \times 16 = 96$

20. A cube has one pair of adjacent faces painted as red; second pair of adjacent faces painted as yellow and third pair of adjacent faces painted as purple. This cube is now cut into 216 smaller and identical cubes. Consider the following statements:

1. There will be 148 small cubes with no paint at all.
2. There will be 48 small cubes with at most two different colours on their faces.

Which of the above statement(s) is/are correct?

(a) Only 1
(b) Only 2
(c) Both 1 and 2
(d) Neither 1 nor 2

$n^3 = 216$
 $n = 6$
 $3 \cdot S.P. = 8$
 $2 \cdot S.P. = 12(n-2)$
 $1 \cdot S.P. = 6(n-2)^2$
 $0 \cdot S.P. = (n-2)^3$

$216 - 66 = 150$
 $36 + 36 = 72 - 6 = 66$

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Similar to Anubhav Test Discussion

7. The petrol price shot up by 10% as a result of the hike in crude oil prices. The price of petrol before the hike was 90 per litre. A person travels 2200 km every month and his car gives a mileage of 16 km per litre. By how many km should he reduce his travel if he wants to maintain his expenditure at the previous level?
- (a) 180 km
(b) 200 km
(c) 220 km
(d) 240 km

Ans. (b)

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26. In a restaurant for a birthday party, if number of guests is 100 then the per plate cost is Rs. 1500 but if the number of guests become 'x', then per plate cost decreases by 20% while the overall expense increases by 20%. Find the value of 'x'.

(a) 60
(b) 100
(c) 150
(d) 120

$$100 \times 1500 = 150000$$

$$20\% \downarrow \quad 20\% \uparrow \quad 300000$$

$$x \times 1200 = 300000$$

$$x = \frac{300000}{1200} = 250$$

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8. A spare parts making company has three units: Unit A, Unit B, Unit C, resulting in 40%, 30%, and 30% of the total manufacture respectively. Unit A, B, and C generate defective spare part rates of 2%, 3%, and 4%. If a spare part is selected randomly found to be defective, what is the probability it came from Unit B?

(a) 0.31 ✓
(b) 0.6
(c) 0.7
(d) None of the above

$$P(\text{Event}) = \frac{\text{Number of favorable outcomes}}{\text{Total no. of outcomes}}$$

$$P(B_d) = \frac{3\% \text{ of } 30\%}{2\% \text{ of } 40\% + 3\% \text{ of } 30\% + 4\% \text{ of } 30\%}$$

$$= \frac{3 \times 30}{2 \times 40 + 3 \times 30 + 4 \times 30} = \frac{90}{200} = 0.45$$

Similar to Anubhav Test Discussion

8. A 4-digit number N is such that when divided by 3, 5, 6, 9 leaves a remainder 1, 3, 4, 7 respectively. What is the smallest value of N?
- (a) 1068
(b) 1072
(c) 1078
(d) 1082

Ans. (c)

40. How many different 9-digit numbers can be formed from the number 441177222 by rearranging its digits so that the odd digits occupy even positions?

(a) 60
(b) 72
(c) 78
(d) 96

ANUBHAV 2025

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ANUBHAV 2025

45. How many 4-digit numbers can be formed using the digits 1,2,3,4,...,8 such that no two consecutive digits are the same?

(a) 2401
(b) 2354
(c) 2744
(d) 3136

NEXT IAS

Similar to Anubhav Test Discussion

15. What is the maximum value of n such that $7 \times 343 \times 385 \times 1000 \times 2401 \times 77777$ is divisible by 35^n ?

- (a) 3
- (b) 4
- (c) 5
- (d) 7

Ans. (b)

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Anubhav 2025 **NEXT IAS**

15. $81^6 + 3^{27}$ is divisible by

- (a) 4
- (b) 7
- (c) Both a and b
- (d) None of the above

$81^6 + 3^{27} = (3^4)^6 + 3^{27}$

$3^{24} + 3^{27}$

$3^{24}(1 + 3^3)$

$3^{24} \times 28 = 3^{24} \times 4 \times 7$

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24. Find the maximum value of n such that $28 \times 41 \times 49 \times 57 \times 63 \times 69 \times 250 \times 243 \times 343 \times 490 \times 91$ is perfectly divisible by 42^n .

(a) 4

(b) 9

(c) 10

(d) 23

$(2 \times 7 \times 7) \times (2 \times 3 \times 7)$

$28 = 4 \times 7 = 2^2 \times 7$

$250 = 25 \times 10 = 5^3 \times 2$

$490 = 49 \times 10 = 7^2 \times 5 \times 2$

4

ANUBHAV-III (2025) : CSAT

NEXT IAS

Similar to Anubhav Test Discussion

16. What is X in the sequence

24, X, 12, 18, 36, 90 ?

- (a) 18
- (b) 12
- (c) 9
- (d) 6

Ans. (b)

40. Find the next term in the following sequence of numbers

5, 8, 12, 18, 24, 30, 36, 42, ?

(a) 52
(b) 64
(c) 68
(d) 76

Handwritten differences: $2+3$, $3+5$, $5+7$, $7+11$, $11+13$, $13+17$, $17+19$, $19+23$, $23+29$

Subhav 2025

Similar to Anubhav Test Discussion

25. A natural number N is such that it can be expressed as $N = p + q + r$, where p , q and r are distinct factors of N . How many numbers below 50 have this property?

- (a) 6
- (b) 7
- (c) 8
- (d) 9

Ans. (c)

ANUBHAV-III Prelims 2025 | CSAT Question Paper Discussion | UPSC | NEXT IAS #csat #upsc...

anubhav-I (2025) : CSAT **NEXT IAS**

7. Find the number of natural numbers less than 9,000 which are formed by the digits 0, 2, 4, 6, 8.

(a) 422
(b) 444
(c) 475
(d) 499

1 digit = 4
2 digit = $4 \times 5 = 20$
3 digit = $4 \times 5 \times 5 = 100$
4 digit = $3 \times 5 \times 5 \times 5 = 375$
499

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Similar to Anubhav Test Discussion

26. Three prime numbers p , q and r , each less than 20, are such that $p - q = q - r$. How many distinct possible values can we get for $(p+q+r)$?

- (a) 4
- (b) 5
- (c) 6
- (d) More than 6

Ans. (a)

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Anubhav 2025 **NEXT IAS**

18. If a , $a + 6$ and $a + 12$ are prime numbers less than 100, then the number of possible solutions for a is

- (a) 4
- (b) 5
- (c) 6
- (d) None of these

5, 11, 17 41, 47, 53
7, 13, 19 47, 53, 59
11, 17, 23 61, 67, 73
17, 23, 29 67, 73, 79
31, 37, 43

Similar to Anubhav Test Discussion

35. Consider the first 100 natural numbers. How many of them are **not** divisible by any one of 2, 3, 5, 7 and 9?
- (a) 20
(b) 21
(c) 22
(d) 23

Ans. (c)

ANUBHAV-III Prelims 2025 | CSAT Question Paper Discussion | UPSC | NEXT IAS #csat #upsc...

anubhav-III (2025) : CSAT

NEXT IAS

7. Find the number of natural numbers less than 9,000 which are formed by the digits 0, 2, 4, 6, 8.

- (a) 422
(b) 444
(c) 475
(d) 499

$$\begin{aligned}
 1 \text{ digit} &= 4 \\
 2 \text{ digit} &= 4 \times 5 = 20 \\
 3 \text{ digit} &= 4 \times 5 \times 5 = 100 \\
 4 \text{ digit} &= 4 \times 5 \times 5 \times 5 = 375 \\
 &\quad \quad \quad 499
 \end{aligned}$$

Similar to Anubhav Test Discussion

38. There are n sets of numbers each having only three positive integers with LCM equal to 1001 and HCF equal to 1. What is the value of n ?

- (a) 6
- (b) 7
- (c) 8
- (d) More than 8

Ans. (d)

ANUBHAV-IV Prelims 2025 | CSAT Question Paper Discussion | UPSC | NEXT IAS #csat

anubhav-IV (2025) : CSAT **NEXT IAS**

39. Three positive integers A, B, and C are such that:

- A and B are co-prime
- LCM of A and C is 180
- HCF of B and C is 6

Consider the following statements:

1. The product of HCF and LCM of A and C is divisible by A.
2. The product of B and C is divisible by 6.

Which of the above statements is/are correct?

- (a) 1 only
- (b) 2 only
- (c) Both 1 and 2
- (d) Neither 1 nor 2

30 / 60

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N NEXT IAS

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39. Let PQR be a 3-digit number, PPT be a 3-digit number and PS be a 2-digit number, where P, Q, R, S, T are distinct non-zero digits. Further, $PQR - PS = PPT$. If $Q = 3$ and $T < 6$, then what is the number of possible values of (R, S)?
- (a) 2
(b) 3
(c) 4
(d) More than 4

Ans. (b)

ANUBHAV-II Prelims 2025 | CSAT Question Paper Discussion | UPSC | NEXT IAS #csat

6. Let X be a three-digit number and Y be another three-digit number formed by reversing the digits of X. If $(X-Y)$ is the greatest two-digit number, then what is the number of possible values of X?

(a) 80
(b) 88
(c) 90
(d) None of the above

$(a, c) = (8)$
 $a \quad (b) \quad c$
 $8 \times 10 = 80$

$X = 100a + 10b + c$
 $Y = 100c + 10b + a$
 $(X-Y) = (100a + 10b + c) - (100c + 10b + a)$
 $= 99a - 99c$
 $= 99(a-c)$
 $a-c = 1$

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12:56 / 3:40:23

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40. Consider the sequence AB_CC_A_BCCC_BBC_C that follows a certain pattern. Which one of the following completes the sequence?

- (a) B, C, B, C, A
- (b) A, C, B, C, A
- (c) B, C, B, A, C
- (d) C, B, B, A, C

Ans. (c)

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Anubhav 2025 **NEXT IAS**

6. Consider the sequence
ABABBCBCBCDCDCDADAD
that follows a certain pattern. Which one of the following
completes the sequence?

(a) B, A, A, D
(b) A, B, C, D
(c) B, A, C, D
(d) A, A, C, B

20 : 4x5 ~ 5x4



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45. P is the brother of Q and R. S is R's mother. T is P's father. How many of the following statements are definitely true?

- I. S and T are a couple.
- II. Q is T's son.
- III. T is Q's father
- IV. S is P's mother,
- V. R is T's daughter.
- VI. P is S's son.

Select the correct answer using the code given below:

- (a) Only two
- (b) Only three
- (c) Only four
- (d) Only five

Ans. (c)

ANUBHAV-IV Prelims 2025 | CSAT Question Paper Discussion | UPSC | NEXT IAS #csat

Directions (Q24-25): Read the following information carefully and answer the question given below it:

- I. There is a group of 6 persons A, B, C, D, E and F in a family. There are chemist, scientist, politician, doctor, Musician and Mathematician (not necessarily in the same order).
- II. The Scientist is the grandfather of F who is a Chemist.
- III. The Doctor D is married to A.
- IV. C, the Musician, is married to a Mathematician.
- V. B is the mother of F and E.
- VI. There are two married couples in the family.

Handwritten notes and diagrams:

- Diagram 1: Doctor D - A (Scientist)
- Diagram 2: Musician C - Mathematician
- Diagram 3: B (Mother) - F (Chemist) - E (Politician)

ANUBHAV-IV Prelims 2025 | CSAT Question Paper Discussion | UPSC | NEXT IAS #csat

Directions (Q24-25): Study the given information carefully and answer the questions given below.

There are six persons in a family, viz., P, Q, R, S, T and U — three females and three males, not necessarily in the same order.

1. There are two married couples and two unmarried persons.
2. Each one of them likes a different book, viz. B1, B2, B3, B4, B5 and B6.
3. T, who likes B2, is P's mother-in-law and P is R's wife.
4. S is U's father and he does not like B1 or B6.
5. Q likes B5 and is U's sister, who likes B3.
6. R does not read B6.

Handwritten notes and diagrams:

- Diagram 1: S (Father) - U (Son)
- Diagram 2: T (Mother-in-law) - P (Wife) - R (Son)
- Diagram 3: Q (Sister) - U (Son)

Handwritten table:

	B1	B2	B3	B4	B5	B6
P						✓
Q					✓	
R	✓					✗
S	✗			✓		✗
T		✓				
U						

ANUBHAV-IV (2025) : CSAT

Similar to Anubhav Test Discussion

46. If NO is coded as 210, NOT is coded as 4200 and NOTE is coded as 21000, then how is NOTES coded?
- (a) 399000
(b) 420000
(c) 440000
(d) 630000

Ans. (a)

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24. In a certain code, MOBILE is coded as 121 & WATCH is coded as 110, then what will be the code for COMPUTER in that language?

(a) 188
(b) 196
(c) 210
(d) 222

Handwritten solution on a chalkboard:

$$13 + 15 + 2 + 9 + 12 + 5 = 56 \quad 56 + 65 = 121$$

MOBILE = 121

$$23 + 1 + 20 + 3 + 8 = 55 \quad 55 + 55 = 110$$

WATCH = 110

$$3 + 15 + 13 + 16 + 21 + 20 + 5 + 18 = 111 \quad 111 + 111 = 222$$

COMPUTER = 222

Anubhav 2025

Similar to Anubhav Test Discussion

47. If FRANCE is coded as 654321 and GERMANY is coded as 9158437, then how is YEMEN coded?

- (a) 54321
- (b) 81913
- (c) 71913
- (d) 71813

Ans. (d)

ANUBHAV-I Prelims 2025 | CSAT Question Paper Discussion | UPSC | NEXT IAS #csat

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24. In a certain code, MOBILE is coded as 121 & WATCH is coded as 110, then what will be the code for COMPUTER in that language?

(a) 188
(b) 196
(c) 210
(d) 222

$13 + 15 + 2 + 9 + 12 + 5 = 56$
 $56 + 65 = 121$
MOBILE = 121
 $23 + 1 + 20 + 3 + 8 = 55$
 $55 + 55 = 110$
WATCH = 110
 $3 + 15 + 13 + 16 + 21 + 20 + 5 + 18 = 111$
 $111 + 111 = 222$
COMPUTER = 222

Anubhav 2025

Similar to Anubhav Test Discussion

49. X can complete one-third of a certain work in 6 days, Y can complete one-third of the same work in 8 days and Z can complete three-fourth of the same work in 12 days. All of them work together for n days and then X and Z quit and Y alone finishes the remaining work in $8\frac{2}{3}$ days. What is n equal to ?
- (a) 3
(b) 4
(c) 5
(d) 6

Ans. (b)

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35. A completes $\frac{2}{5}$ of a certain job in 8 days. B can complete $\frac{2}{3}$ of the same job in 10 days and C can complete $\frac{1}{4}$ of the work in 10 days. All of them work together for 4 days and then A and C quit. How long will it take for B to complete the remaining work alone?

(a) $4\frac{2}{3}$ days
(b) $3\frac{1}{2}$ days
(c) $5\frac{2}{3}$ days
(d) $6\frac{1}{2}$ days

$6\frac{1}{2} \rightarrow$

$A \rightarrow \frac{8}{5} \times 5 = 20d$
 $B \rightarrow \frac{10}{3} \times 3 = 15d$
 $C \rightarrow \frac{10}{1} = 10d$

$4\left(\frac{1}{20} + \frac{1}{15} + \frac{1}{10}\right) + n \times \frac{1}{15} = 1$

Anubhav 2025

Similar to Anubhav Test Discussion

50. What is X in the sequence

1, 3, 6, 11, 18, X, 42 ?

- (a) 26
- (b) 27
- (c) 29
- (d) 30

Ans. (c)

Similar to Anubhav Test Discussion

55. In a T20 cricket match, three players X, Y and Z scored a total of 37 runs. The ratio of number of runs scored by X to the number of runs scored by Y is equal to ratio of number of runs scored by Y to number of runs scored by Z.

Value-I = Runs scored by X

Value-II = Runs scored by Y

Value-III = Runs scored by Z

Which one of the following is correct?

- (a) Value-I < Value-II < Value-III
- (b) Value-III < Value-II < Value-I
- (c) Value-I < Value-III < Value-II
- (d) Cannot be determined due insufficient data

Ans. (d)

69. Consider the following statements:

- In a 100 meters race, Anil can give Sunil a start of 10 meters and in a 18 km race Sunil can give Saif a start of 2 km. If the speed of Anil is 20 m/s, then the speed of Saif (in m/s) is 16.
- If the ratio of speeds of Akshay and Bobby is 4 : 5 and Akshay loses the race by 250 m, then the length of the race track (in km) is 1.25.

Which of the above statement(s) is/are correct?

(a) 1 only
(b) 2 only
(c) Both 1 and 2
(d) Neither 1 nor 2

Handwritten notes on the right side of the screen:

- For statement 1: $A - 100m \rightarrow S_A : S_S$, $S - 90m$, $100 : 90$, $10 : 9$, $S_S : S$, $18km : 9$, $20m/s$, $16m/s$
- For statement 2: $A : B = 4 : 5$, $250m$, $1.25km$

Subbay-IV (2025) : CSAT

Similar to Anubhav Test Discussion

56. Let $p + q = 10$ where p, q are integers.
Value-I = Maximum value of $p \times q$ when p, q are positive integers.
Value-II = Maximum value of $p \times q$ when $p \geq -6$ $q \geq -4$
Which one of the following is correct?
(a) Value-I < Value-II
(b) Value-II < Value-I
(c) Value-I = Value-II
(d) Cannot be determined due to insufficient data

Ans. (c)

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28. A question is followed by two statements I and II. Consider the Question and the Statements.
Question: If X and Y are integers, is X divisible by 11?
Statement-I: Product of X and Y is divisible by 110
Statement-II: Y is divisible by 2
Which one of the following is correct in respect of the above Question and the Statements?
(a) The Question can be answered using one of the Statements alone, but cannot be answered using the other Statement alone.
(b) The Question can be answered using either Statement alone.
(c) The Question can be answered using both the Statements together, but cannot be answered using either Statement alone.
(d) The Question cannot be answered even using both the Statements together.

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15. Consider the following including the question and statements:
Given, a and b are integers and $a = 2, b > a$
Question: Is $a^{66} < b^{22}$?
Statements
1. b is even
2. $b > 6$
Which one of the following is correct in respect of the above Question and the Statements?
(a) The Question can be answered by using one of the Statements alone, but cannot be answered using the other Statement alone.
(b) The Question can be answered by using either Statement alone.
(c) The Question can be answered by using both the Statements together, but cannot be answered using either Statement alone.
(d) The Question cannot be answered even using both the Statements together.

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58. The average of three numbers p, q and r is k. p is as much more than the average as q is less than the average. What is the value of r?

- (a) k
- (b) k-1
- (c) k+1
- (d) k/2

Ans. (a)

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77. Suppose the average (mean) of a data set consisting of x_1, x_2, \dots, x_n is x . If the last value x_n is replaced by another value k , what will be the new mean of the series?

(a) $x - x_n + k$
 (b) $(nx - x + k)/n$
 (c) $x_n - k/n$
 (d) $(nx - x_n + k)/n$

Handwritten notes on the screen:
 $\bar{x} = \frac{x_1 + x_2 + \dots + x_n}{n}$
 $n\bar{x} = x_1 + x_2 + \dots + x_n$
 $n\bar{x} = x_1 + x_2 + \dots + x_{n-1} + x_n$
 $n\bar{x} = x_1 + x_2 + \dots + x_{n-1} + k$
 $n\bar{x} - x_n + k$

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59. Let x be a real number between 0 and 1. Which of the following statements is/are correct?

- I. $x^2 > x^3$
- II. $x > \sqrt{x}$.

Select the correct answer using the code given below:

- (a) I only
- (b) II only
- (c) Both I and II
- (d) Neither I nor II

Ans. (a)

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27. Consider the following statements-
Statement I: $(a^2 + b^2) \geq 0$ is always true for any real numbers a and b .
Statement II : The minimum non-negative value of the expression $175 * 25 * 20 * 3 * 11$ can be 5 when $*$ is chosen from $+$, $-$, \times , \div , each at most two times.
Which of the above statement(s) is/are correct?

(a) 1 only
(b) 2 only
(c) Both 1 and 2
(d) Neither 1 nor 2

$175 \div 25 = 7$
 $7 - 20 + 3 = -13 + 3 = -10$
 $-10 - 11 = -21$
 $7 - 20 = -13$
 $-13 + 3 = -10$
 $-10 + 11 = 1$

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60. The difference between any two natural numbers is 10. What can be said about the natural numbers which are divisible by 5 and lie between these two numbers?
- (a) There is only one such number.
(b) There are only two such numbers.
(c) There can be more than one such number.
(d) No such number exists.

Ans. (c)

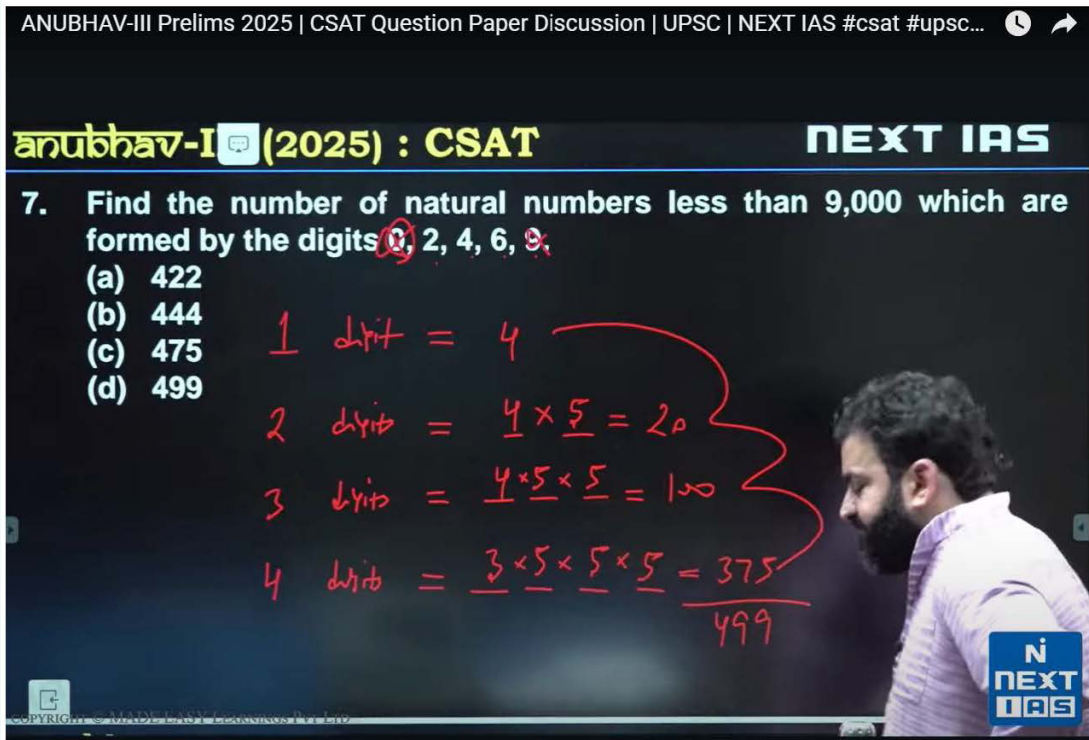
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7. Find the number of natural numbers less than 9,000 which are formed by the digits 0, 2, 4, 6, 8.

(a) 422
(b) 444
(c) 475
(d) 499

1 digit = 4
2 digit = $4 \times 5 = 20$
3 digit = $4 \times 5 \times 5 = 100$
4 digit = $3 \times 5 \times 5 \times 5 = 375$
499



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65. A set (X) of 20 pipes can fill 70% of a tank in 14 minutes. Another set (Y) of 10 pipes fills $\frac{3}{8}$ th of the tank in 6 minutes. A third set (Z) of 16 pipes can empty half of the tank in 20 minutes. If half of the pipes of set X are closed and only half of the pipes of set Y are open, and all pipes of the set (Z) are open, then how long will it take to fill 50% of the tank?

- (a) 8 minutes
- (b) 10 minutes
- (c) 12 minutes
- (d) 16 minutes

Ans. (d)

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80. A tank is connected to a number of inlet and outlet pipes. An inlet pipe can fill the tank in 30 hours and an outlet pipe can drain the tank in 40 hours. If a system of P pipes (inlet & outlet pipes put together) can fill the tank in exactly 4 hours, which of the following can be the possible value of P?

(a) 11, 18 & 25
(b) 11 & 25
(c) 15 & 18
(d) 13, 15 & 18

$\frac{1}{30} - \frac{1}{40} = \frac{1}{4}$
 $\frac{x}{30} - \frac{y}{40} = \frac{1}{4}$
 $y = \frac{4x - 30}{3}$
 $x + y = P = 11, 18$
 $x = 9, y = 2$
 $x = 12, y = 6$
 $x = 15, y = 10$

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67. Four two-way pipes P1, P2, P3 and P4 can either fill an empty tank or drain the full tank in 4, 10, 12 and 20 minutes respectively. All four pipes were opened simultaneously when the tank is empty. Under which of the following conditions the tank would be half filled after 30 minutes?

Pipe P1 drained and pipes P2, P3 and P4 filled
Pipes P1 and P4 drained and pipes P2 and P3 filled
P1 and P4 filled and pipes P2 drained and Pipes P2, P3 and P4 filled

$P_1 = 15 \text{ l/min} \times 30 = 450$
 $P_2 = 6 \text{ l/min} \times 30 = 180$
 $P_3 = 5 \text{ l/min} \times 30 = 150$
 $P_4 = 3 \text{ l/min} \times 30 = 90$
 $450 + 180 + 150 + 90 = 870$
 $870 - 420 = 450$
 $450 \div 30 = 15 \text{ l/min}$

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67. Let $P = \overline{QQQ}$ be a 3-digit number. What is the HCF of P and 481?

- (a) 1
- (b) 13
- (c) 37
- (d) 481

Ans. (c)

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6. Let X be a three-digit number and Y be another three-digit number formed by reversing the digits of X . If $(X-Y)$ is the greatest two-digit number, then what is the number of possible values of X ?

(a) 80
(b) 88
(c) 90
(d) None of the above

$(a, c) = (8)$
 $a \quad b \quad c$
 $8 \times 10 = 80$

$x = 100a + 10b + c$
 $y = 100c + 10b + a$
 $(x-y) = (100a + 10b + c) - (100c + 10b + a)$
 $= 99a - 99c$
 $= 99(a-c)$
 $a-c=1$

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70. Three teams P, Q, R participated in a tournament in which the teams play with one another exactly once. A win fetches a team 2 points and a draw 1 point. A team gets no point for a loss. Each team scored exactly one goal in the tournament. The team P got 3 points, Q got 2 points and R got 1 point. Which of the following statements is/are correct?

- I. The result of the match between P and Q is a draw with the score 0 – 0.
- II. The number of goals scored by R against Q is 1.

Which of the statements given above is/are correct?

- (a) I only
- (b) II only
- (c) Both I and II
- (d) Neither I nor II

Ans. (c)

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14. In a round-robin tournament of 8 teams (each team plays with every other team exactly once), points are given to each team as per the following:-
Win = 3 points to the winner, 1 point to the loser
Draw = 2 points to each team
In such a setup, consider the following statements:

1. The maximum number of teams that a team can earn if two teams have the same number of win counts, is x.
2. The minimum number of teams that three teams can have if they have the same lowest total, is y.

Find the value of x and y

- (a) 20 points and 9 points
- (b) 21 points and 7 points
- (c) 18 points and 7 points
- (d) None of the above

Handwritten notes on the screen:

A, B, C, D, E, F, G, H

A → 6 × 3p = 18p + 2p = 20p
B → 6 × 3p = 18p + 2p = 20p
F → 5 × 1p = 5p + 4p = 9p
G → 5 × 1p = 5p + 4p = 9p
H → 5 × 1p = 5p + 4p = 9p

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75. There are 7 places A, B, C, D, E, F and G in a city connected by various roads AB, AC, CD, DE, BF, EG and FG. A is 6 km south of B. A is 10 km west of C. D is 5 km east of E. C is 6 km north of D. F is 9 km west of B. F is 12 km north of G. A person travels from D to F through these roads. What is the distance covered by the person?

- (a) 20 km
- (b) 25 km
- (c) 31 km
- (d) 37 km

Ans. (c)

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68. Amitabh's house is 50 km West of Shahrukh's house. On Friday morning, at 8 a.m., they leave their respective houses. Under which of the following scenarios, the minimum distance between the two can be 40 km?

Scenario I: Amitabh walks East at a constant speed of 3 km per hour and Shahrukh walks South at a constant speed of 4 km per hour.

Scenario II: Amitabh walks South at a constant speed of 3 km per hour and Shahrukh walks East at a constant speed of 4 km per hour.

Scenario III: Amitabh walks West at a constant speed of 4 km per hour and Shahrukh walks East at a constant speed of 3 km per hour.

Select the correct answer using the code given below.

(a) Scenario I only
(b) Scenario II only
(c) Scenario III only
(d) Scenario I and II

Handwritten calculations and diagrams for the CSAT question. The diagram shows a coordinate system where Amitabh (A) is 50 km West of Shahrukh (S). Scenario I: A moves East at 3 km/h, S moves South at 4 km/h. After time t, A is at 50-3t km West of S, and S is 4t km South of the starting point. The distance between them is $\sqrt{(50-3t)^2 + (4t)^2}$. The minimum distance is 40 km when t=10. Scenario II: A moves South at 3 km/h, S moves East at 4 km/h. After time t, A is 50 km West of S, and S is 4t km East of the starting point. The distance between them is $\sqrt{50^2 + (4t)^2}$. The minimum distance is 50 km when t=0. Scenario III: A moves West at 4 km/h, S moves East at 3 km/h. After time t, A is 50+4t km West of S, and S is 3t km East of the starting point. The distance between them is $\sqrt{(50+4t)^2 + (3t)^2}$. The minimum distance is 50 km when t=0.

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76. In a certain code if 64 is written as 343 and 216 is written as 729, then how is 512 written in that code?
- (a) 1000
(b) 1331
(c) 1728
(d) 2197

Ans. (b)

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47. If in a certain code language, 'GOD' is written as '86161453' and 'SKY' is written as '201812102624', then how will 'FUN' be written in that language?

(a) 5722161814
(b) 62022201513
(c) 7522201513 ✓
(d) 7522201614

GOD → H F P N E C
→ 8 6 16 14 5 3

FUN → G E V T O M
7 5 13

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77. What is the remainder when

$$9^3 + 9^4 + 9^5 + 9^6 + \dots + 9^{100}$$

is divided by 6?

- (a) 0
- (b) 1
- (c) 2
- (d) 3

Ans. (a)

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19. Consider the following statements:
 I. When ~~2425~~ is divided by 17, the remainder is 2.
 II. All even numbers greater than 2 are composite numbers.
 Which of the above statement(s) is/are correct?
 (a) I only
 (b) II only
 (c) Both I and II
 (d) Neither I nor II

$\frac{2}{3} \Rightarrow R=2$
 $\frac{2^2}{3} \Rightarrow R=1$
 $\frac{2^3}{3} \Rightarrow R=2$
 $\frac{2^4}{3} \Rightarrow R=1$

$\frac{2^{128}}{17} \Rightarrow \frac{(2^4)^{32}}{17} = \frac{16^{32}}{17} \Rightarrow R=1$

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