



CLAT Gurukul

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By Ready For Exa

IPM GURUKUL

IPM Daily Practice

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1.

If the roots of the quadratic $x^2 - (k+3)x + (4k+5) = 0$ are equal, the sum of all possible values of k is: [mcq_single_correct]

- A. 10
- B. 14
- C. 16
- D. 20

2.

If $\log_2(x) + \log_2(x - 6) = 4$, the value of x is: [mcq_single_correct]

- A. 8
- B. 10
- C. 12
- D. 16

3.

For how many integer values of x does the inequality $|2x - 5| < 7$ hold? [mcq_single_correct]

- A. 5
- B. 6
- C. 7
- D. 8

4.

If $f(x) = (3x + 2)/(x + 1)$, then $f(f(1))$ equals: [mcq_single_correct]

- A. $13/7$
- B. $11/7$
- C. $7/4$
- D. $9/5$

NAME: _____

ROLL NO: _____

BATCH: _____

5.

The minimum value of the expression $4x^2 - 12x + 13$ over all real x is: [mcq_single_correct]

- A. 1
- B. 4
- C. 5
- D. 9

6.

If α and β are roots of $x^2 - 7x + 5 = 0$, then $\alpha^2 + \beta^2$ equals: [mcq_single_correct]

- A. 29
- B. 34
- C. 39
- D. 49

7.

If $3^{x^2} + 3^x = 270$, the value of x is: [mcq_single_correct]

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

8.

The sum of the first 20 terms of the AP 7, 11, 15, 19, ... is: [mcq_single_correct]

- A. 860
- B. 880
- C. 900
- D. 920

9.

If $x + 1/x = 5$, then $x^3 + 1/x^3$ equals: [mcq_single_correct]

- A. 95
- B. 100
- C. 110
- D. 125

10.

The product of two consecutive positive odd integers is 1023. Their sum is: [mcq_single_correct]

- A. 62
- B. 64
- C. 66
- D. 68

11.

If $\log_{10} 2 = 0.3010$, the number of digits in 2^{50} is (TITA, enter integer). [tita_numeric]

12.

If α, β are roots of $2x^2 - 5x + 3 = 0$, the value of $(1/\alpha) + (1/\beta)$ is (TITA, enter as decimal to 2 places). [tita_numeric]

13.

How many real solutions does the equation $x^2 - 4|x| + 3 = 0$ have? (TITA, enter integer.) [tita_numeric]

14.

If $f(x) = x^2 - 3x + 2$ and $f(a) = f(a + 1)$, the value of a is (TITA, enter as decimal to 2 places). [tita_numeric]

15.

Read the passage and answer Q15–Q18.

The modern attention economy has fundamentally redrawn the contract between media platforms and their audiences. Where traditional newspapers and broadcasters sold a curated product to a paying subscriber, today's social platforms sell the audience itself to advertisers, monetising not content but engagement. The result is an inversion of editorial incentives: where once gatekeepers asked whether a story was true, useful, or important, algorithmic feeds now ask whether it will provoke a reaction within the next three seconds. Outrage, novelty, and tribal affirmation reliably outperform nuance, and so they are systematically amplified. Critics warn that this is not merely a question of taste but of epistemic infrastructure — the rails on which democratic deliberation runs. Yet the platforms argue, with some justification, that they are mirrors and not authors, surfacing only what users themselves choose to engage with. The truth, as ever, is interactive: the algorithm trains the user even as the user trains the algorithm, and over time the two converge on a steady diet of conflict because conflict is what holds attention longest. Reform proposals range from algorithmic transparency mandates to outright bans on engagement-based ranking for news content, but each runs aground on a thornier question: who decides what counts as healthy public discourse, and on what authority? Until that question is settled, the attention economy will continue to optimise for the metric it can measure rather than the metric that matters.

Q15. The author's central claim is that: [rc_set]

- A. Social media platforms deliberately publish false content to maximise revenue.
- B. The shift from subscriber-paid to advertiser-paid media has reoriented editorial incentives toward engagement rather than accuracy.
- C. Traditional newspapers were always more accurate than digital platforms.
- D. Algorithmic ranking should be banned entirely for all forms of online content.
- E. Users are wholly responsible for the quality of their own information diet.

16.

Q16. The phrase 'epistemic infrastructure' is used in the passage to suggest that: [rc_set]

- A. Knowledge is built by professional journalists alone.
- B. The systems that shape what citizens come to believe are themselves a kind of public utility.
- C. Algorithms are inherently neutral conduits of information.
- D. Democratic deliberation requires no shared factual basis.
- E. Engagement metrics directly measure citizens' understanding of issues.

17.

Q17. According to the passage, the platforms' self-defence that they are 'mirrors and not authors' is: [rc_set]

- A. Wholly dishonest and rejected by the author.
- B. Fully accepted by the author without qualification.
- C. Partially valid, but incomplete because user and algorithm shape each other reciprocally.
- D. Irrelevant to the question of editorial responsibility.
- E. Endorsed by all major reform proposals.

18.

Q18. The author's tone in the closing sentence is best described as: [rc_set]

- A. Triumphantly optimistic
- B. Bitterly sarcastic
- C. Warily resigned but analytically clear
- D. Indignantly partisan
- E. Lightheartedly dismissive

19.

Choose the option that best replaces the underlined portion: 'Neither the manager nor the employees WAS willing to attend the off-site review.' [mcq_single_correct]

- A. WAS willing to attend
- B. WERE willing to attend
- C. HAVE BEEN willing to attend
- D. IS willing to attend
- E. No change required

20.

Identify the antonym of OBSEQUIIOUS: [mcq_single_correct]

- A. Servile
- B. Fawning
- C. Insolent
- D. Compliant
- E. Deferential

21.

Choose the synonym of PERFUNCTORY: [mcq_single_correct]

- A. Thorough
- B. Cursory
- C. Diligent
- D. Painstaking
- E. Meticulous

22.

Rearrange the sentences into a coherent paragraph.

(A) However, the cost of large-scale storage has fallen faster than most analysts predicted.

(B) For decades, the chief obstacle to renewable electricity was not generation but storage.

(C) Lithium-ion chemistry, originally developed for consumer electronics, now anchors grid-scale batteries from Australia to California.

(D) That single technological pivot has redrawn the economics of solar and wind across three continents. [mcq_single_correct]

- A. BACD
- B. BCAD
- C. ABCD
- D. CBAD
- E. BADC

23.

Choose the option that best completes the sentence: 'The committee's report, though exhaustive in detail, was ___ in its recommendations, offering little that the working group had not already proposed.' [mcq_single_correct]

- A. incisive
- B. derivative
- C. audacious
- D. seminal
- E. revelatory

24.

Spot the error in the sentence: 'One of the candidates / who were shortlisted / have withdrawn / from the selection process.' Select the part with the error. [mcq_single_correct]

- A. One of the candidates
- B. who were shortlisted
- C. have withdrawn
- D. from the selection process
- E. No error

25.

Read the puzzle and answer Q25–Q27.

Seven students — P, Q, R, S, T, U, V — are seated around a circular table facing the centre, not necessarily in this order. Positions are numbered 1 to 7 clockwise. The following conditions hold:

- P sits at position 1.
- Q sits three seats clockwise from P.
- R sits two seats anticlockwise from Q.
- S sits immediately clockwise to P.
- T sits three seats clockwise from R.
- V sits immediately anticlockwise to P.
- U occupies the only remaining seat.

Q25. Who sits immediately to the left of P (i.e., immediately anticlockwise, since students face the centre)? [puzzle_set]

- A. V
- B. U
- C. T
- D. R
- E. Cannot be determined

26.

Q26. Who occupies the seat three places clockwise from S (using the same arrangement as Q25)? [puzzle_set]

- A. Q
- B. T
- C. U
- D. V
- E. R

27.

Q27. If S and T interchange their positions (from the original arrangement), who then sits immediately clockwise to P? [puzzle_set]

- A. S
- B. Q
- C. U
- D. T
- E. R

28.

A is the brother of B. B is the daughter of C. C is the wife of D. E is the only sister of D. How is E related to A? [mcq_single_correct]

- A. Mother
- B. Aunt
- C. Sister
- D. Cousin
- E. Cannot be determined

29.

In a certain code, 'CHARM' is written as 'EJCTO' and 'BRAIN' is written as 'DTCKP'. How is 'STORM' written in that code? [mcq_single_correct]

- A. UVQTO
- B. UVQTN
- C. UVQSO
- D. TVQTO
- E. UWQTO

30.

Statements: All managers are leaders. Some leaders are visionaries. No visionary is a coward.

Conclusions: (I) Some managers are visionaries. (II) No manager is a coward. (III) Some leaders are not cowards.

Which conclusion(s) necessarily follow? [mcq_single_correct]

- A. Only I follows
- B. Only II follows
- C. Only III follows
- D. Both I and III follow
- E. Both II and III follow

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