



# CLAT Gurukul

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## By Ready For Exa

GOVT GURUKUL

Answer Key — SSC Speed Sheet

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1. B

$$(x+y)^2 = x^2+y^2+2xy \Rightarrow 100 = x^2+y^2 + 42 \Rightarrow x^2+y^2 = 58.$$

2. C

$$2x - 3 = 11 \Rightarrow x = 7. \text{ Then } 3x + 5 = 21 + 5 = 26.$$

3. C

$$(a+b)^2 = a^2+b^2 + 2ab = 25 + 24 = 49.$$

4. A

Find two numbers with product 30 and sum 11: 5 and 6. So  $x^2 - 11x + 30 = (x-5)(x-6)$ .

5. C

$$(x - 1/x)^2 = x^2 + 1/x^2 - 2 \Rightarrow 9 = x^2 + 1/x^2 - 2 \Rightarrow x^2 + 1/x^2 = 11.$$

6. B

$$x^2 - 5x + 6 = (x-2)(x-3) = 0 \Rightarrow x = 2, 3.$$

7. C

$$\text{Hypotenuse} = \sqrt{(9^2 + 12^2)} = \sqrt{(81+144)} = \sqrt{225} = 15.$$

8. B

Interior angle of regular n-gon =  $(n-2) \cdot 180^\circ/n$ . For n=6:  $4 \cdot 180/6 = 120^\circ$ .

9. A

$$\text{Area} = (\sqrt{3}/4)a^2 = (\sqrt{3}/4)(36) = 9\sqrt{3} \text{ cm}^2.$$

10. B

$$\text{Volume} = \pi r^2 h = (22/7) \cdot 49 \cdot 10 = 22 \cdot 7 \cdot 10 = 1540 \text{ cm}^3.$$

11. C

$$\text{CSA of cone} = \pi r l = (22/7) \cdot 7 \cdot 10 = 220 \text{ cm}^2.$$

NAME: \_\_\_\_\_

ROLL NO: \_\_\_\_\_

BATCH: \_\_\_\_\_

12. B

Diagonal of square of side  $a$  is  $a\sqrt{2}$ . So  $8\sqrt{2}$  cm.

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13. C

Geometric progression with ratio 3:  $81 \times 3 = 243$ .

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14. C

$169=13^2$ ,  $196=14^2$ ,  $225=15^2$ ,  $289=17^2$ ; 250 is not a perfect square.

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15. A

Pattern: alternate letters shifted +2 and +1:  $F+2=H$ ,  $R+3=U$ ,  $I+4=M$ ,  $E+5=J$ ,  $N+5=S$ ? Recompute by pairwise diff with given target HUMJTK  $\Rightarrow$  shifts (+2,+3,+4,+5,+6,+7). Apply same to CANDLE:  $C+2=E$ ,  $A+3=D$ ,  $N+4=R$ ,  $D+5=I$ ,  $L+6=R$ ,  $E+7=L \Rightarrow$  EDRIRL.

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16. C

Sum of letter positions:  $I=9$ ,  $N=14$ ,  $K=11 \Rightarrow 9+14+11 = 34$ .

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17. B

Mother's only brother = maternal uncle; his son = Asha's cousin.

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18. C

Order (L $\rightarrow$ R): T, S, R, Q, P. The middle (3rd) is R.

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19. B

Substitute:  $9 + 6 - 4 \times 2 = 9 + 6 - 8 = 7$ ? Apply real ops:  $9 + 6 = 15$ ;  $15 - 4 = 11$ ;  $11 \times 2$  not — apply BODMAS on substituted expression  $9 + 6 - 4 \times 2 = 9 + 6 - 8 = 7$ . But option B is 11 reflecting strict L $\rightarrow$ R as some exam keys do — official SSC keys use BODMAS = 7. Choose A (7) — corrected.

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20. B

Net displacement: north 3 – south 3 = 0; east = 4. Distance = 4 km.

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21. C

Syllogism: All M $\rightarrow$ F $\rightarrow$ S  $\Rightarrow$  All M are sweet (I). Some sweet are mangoes is converse of universal affirmative — valid by particular conversion. Both follow.

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22. B

Probable, Probation, Probe, Problem (compare letter-by-letter after 'Prob': a < a (tie)  $\rightarrow$  b vs a  $\rightarrow$  'Probable' first; then 'Probation' (a

23. B

Hour hand at 3:30 is between 3 and 4 (at  $3.5 \times 30^\circ = 105^\circ$  from 12). Minute hand at 6 ( $180^\circ$ ). Angle =  $180 - 105 = 75^\circ$ .

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24. C

Squares of consecutive integers:  $2^2, 3^2, 4^2, 5^2, 6^2, 7^2 \Rightarrow$  missing = 36.

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25. A

ABUNDANT (plentiful) = synonym Plentiful. Opposites: scarce/limited.

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26. C

CONCEAL = to hide. Antonym = REVEAL.

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27. B

'One of the boys' is singular subject  $\Rightarrow$  verb must be 'is absent', not 'are absent'.

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28. B

Standard collocation: 'fond OF something'.

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29. B

'A piece of cake' = something very easy to do.

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30. C

Correct spelling: Occurrence (double-c, double-r, -ence).

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