



CLAT Gurukul

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By Ready For Exa

RFB GURUKUL

Answer Key — Class-10 Daily Sheet

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1. **A**

$12 = 2^2 \times 3$, $18 = 2 \times 3^2$; LCM = $2^2 \times 3^2 = 36$.

2. **B**

$x^2 - 5x + 6 = (x-2)(x-3) = 0$, so the roots are 2 and 3.

3. **C**

$a_n = a + (n-1)d = 2 + 9 \times 3 = 29$.

4. **D**

Since $3^2 + 4^2 = 9 + 16 = 25 = 5^2$, it is a right-angled triangle (converse of Pythagoras).

5. **A**

Even numbers on a die are 2, 4, 6 — three of six outcomes, so probability = $3/6 = 1/2$.

6. **B**

Distance = $\sqrt{3^2 + 4^2} = \sqrt{25} = 5$ units.

7. **C**

Area = $\pi r^2 = (22/7) \times 7 \times 7 = 154 \text{ cm}^2$.

8. **D**

Sum = $n(n+1)/2 = 20 \times 21/2 = 210$.

9. **A**

A pH below 7 indicates an acidic solution; 7 is neutral and above 7 is basic.

10. **B**

The first law of reflection states the angle of incidence equals the angle of reflection.

11. **C**

The human heart has four chambers: two atria and two ventricles.

NAME: _____

ROLL NO: _____

BATCH: _____

12. **D**

Ohm's law states $V = IR$ — voltage equals current times resistance.

13. **A**

Photosynthesis uses carbon dioxide and water (with sunlight and chlorophyll) to make glucose and oxygen.

14. **B**

An acid reacting with a base to give salt and water is a neutralisation reaction.

15. **C**

Light entering a denser medium slows and bends towards the normal.

16. **D**

The modern periodic table (Moseley) arranges elements by increasing atomic number.

17. **A**

ATP (adenosine triphosphate) is the energy currency of the cell, produced during respiration.

18. **B**

The Indian National Congress was founded in 1885, with its first session at Bombay.

19. **C**

The Reserve Bank of India is the country's central bank, regulating currency and monetary policy.

20. **D**

India is federal in structure but with a strong unitary bias (a 'quasi-federal' system).

21. **A**

Universal adult franchise in India sets the voting age at 18 years (61st Amendment, 1988).

22. **B**

The First Five-Year Plan, based on the Harrod-Domar model, prioritised agriculture and irrigation.

23. **C**

The Tropic of Cancer passes through about eight Indian states, from Gujarat to Mizoram.

24. **D**

'Courageous' is the closest synonym of 'brave'; the others are antonyms.

25. **A**

'Modern' is the opposite of 'ancient'; old, antique and aged are synonyms.

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