



CCG

CLAT Gurukul

By Ready For Exa

RFB GURUKUL

Answer Key — Class-12 PCB Daily Sheet

RFB-XII-B-DPS · 2026-05-30

1. **C**

Magnetic flux is measured in webers (Wb); tesla is the unit of magnetic field.

2. **D**

The energy of a photon is $E = h\nu$, where h is Planck's constant and ν the frequency.

3. **A**

A step-up transformer has more turns in the secondary than the primary, raising the voltage.

4. **B**

The nucleus contains protons and neutrons (collectively nucleons); electrons orbit outside.

5. **C**

Total internal reflection occurs when the angle of incidence exceeds the critical angle in the denser medium.

6. **D**

In semiconductors, raising temperature releases more charge carriers, so resistance decreases.

7. **A**

Gain or loss of electrons changes the oxidation state of an atom in redox reactions.

8. **B**

Proteins are polymers of amino acids linked by peptide bonds.

9. **C**

Carboxylic acids contain the $-\text{COOH}$ (carboxyl) functional group.

10. **D**

Vitamin C (ascorbic acid) is water-soluble; A, D and K are fat-soluble.

11. **A**

Human blood is slightly alkaline, maintained around pH 7.4 by buffers.

NAME: _____

ROLL NO: _____

BATCH: _____

12. **B**

DNA and RNA are polymers of nucleotides (sugar + phosphate + nitrogenous base).

13. **C**

Soaps are the sodium or potassium salts of long-chain fatty acids.

14. **D**

The nephron is the structural and functional unit of the kidney.

15. **A**

Sperm are produced in the testes by the process of spermatogenesis.

16. **B**

Mendel's law of segregation states that paired alleles separate during gamete formation.

17. **C**

O-negative blood is the universal donor as it lacks A, B and Rh antigens.

18. **D**

PCR (polymerase chain reaction) amplifies a DNA segment into many copies in vitro.

19. **A**

Green plants are producers (autotrophs), forming the base of the food chain.

20. **B**

Malaria is caused by the protozoan parasite Plasmodium, transmitted by Anopheles mosquitoes.

21. **C**

Fertilisation in humans normally occurs in the fallopian tube (oviduct).

22. **D**

A monohybrid cross gives a 3 : 1 phenotypic ratio in the F₂ generation.

23. **A**

Decomposers are mainly bacteria and fungi, which break down dead organic matter.

24. **B**

Insulin is secreted by the beta cells of the pancreas (islets of Langerhans).

25. **C**

The species is the basic unit of biological classification.

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