



CLAT Gurukul

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By Ready For Exa

RFB GURUKUL

Class-10 Daily Sheet

RFB-X-DPS · 2026-05-28 · 45 min · no-negative (CBSE board pattern)

1.

The site of photosynthesis in a plant cell is the: [factual_mcq_ncert]

- A. Mitochondria
- B. Chloroplast
- C. Nucleus
- D. Ribosome

2.

Which of the following is NOT a part of the human alimentary canal? [factual_mcq_ncert]

- A. Oesophagus
- B. Trachea
- C. Duodenum
- D. Rectum

3.

In a reflex action, the path travelled by an impulse is called: [factual_mcq_ncert]

- A. Neuron pathway
- B. Reflex arc
- C. Synapse loop
- D. Cerebral path

4.

Bile is secreted by ____ and stored in _____. [factual_mcq_ncert]

- A. Pancreas; liver
- B. Liver; gall bladder
- C. Gall bladder; liver
- D. Stomach; duodenum

NAME: _____

ROLL NO: _____

BATCH: _____

5. Which hormone regulates blood sugar level in humans? [factual_mcq_ncert]

- A. Thyroxine
- B. Adrenaline
- C. Insulin
- D. Testosterone

6. The discriminant of the quadratic equation $2x^2 - 7x + 3 = 0$ is: [computation_mcq]

- A. 25
- B. 49
- C. 37
- D. 13

7. The HCF of 96 and 404 by Euclid's algorithm is: [computation_mcq]

- A. 2
- B. 4
- C. 8
- D. 12

8. Mahatma Gandhi launched the Champaran satyagraha in: [factual_mcq_ncert]

- A. 1915
- B. 1916
- C. 1917
- D. 1919

9. In Anne Frank's diary (NCERT First Flight), 'Kitty' refers to: [lit_extract_mcq]

- A. Anne's cat
- B. Anne's diary (her addressee)
- C. Anne's sister
- D. Anne's friend Miep

10. Which of the following is a renewable source of energy? [factual_mcq_ncert]

- A. Coal
- B. Petroleum
- C. Biogas
- D. Natural gas

11. Assertion (A): Veins have thin walls compared to arteries. Reason (R): Veins carry blood at low pressure back to the heart. Which is correct? [assertion_reason]

- A. Both A and R are true and R is the correct explanation of A
- B. Both A and R are true but R is NOT the correct explanation of A
- C. A is true, R is false
- D. A is false, R is true

12. Assertion (A): Auxins promote cell elongation in plants. Reason (R): Auxins are synthesised at the shoot tip and diffuse downwards. Which is correct? [assertion_reason]

- A. Both A and R are true and R is the correct explanation of A
- B. Both A and R are true but R is NOT the correct explanation of A
- C. A is true, R is false
- D. A is false, R is true

13. Case-Study (Heredity): Mendel crossed pure-bred tall (TT) pea plants with pure-bred dwarf (tt) plants. F1 was entirely tall; F1 was self-pollinated to obtain F2. Q13a. Genotype of F1 plants is: [case_based_mcq]

- A. TT
- B. Tt
- C. tt
- D. TT and tt in 1:1

14.

Q13b. Phenotypic ratio in F2 generation is: [case_based_mcq]

- A. 1:1
- B. 3:1
- C. 1:2:1
- D. 9:3:3:1

15.

Q13c. The dwarf trait reappearing in F2 shows that: [case_based_mcq]

- A. Blending inheritance occurs
- B. Incomplete dominance occurs
- C. The recessive trait was masked in F1, not lost
- D. A new mutation arose

16.

Q13d. Among 400 F2 plants, approximate number of dwarf plants is: [case_based_mcq]

- A. 100
- B. 200
- C. 300
- D. 75

17.

VSA (2 marks): Define 'osmoregulation' and name one organ in humans involved in it. [qa_sa_tita]

- A. Model answer required (see explanation)

18.

VSA (2 marks): What is the role of HCl in the human stomach? Name the gland that produces it. [qa_sa_tita]

- A. Model answer required (see explanation)

19.

SA (3 marks): Explain the mechanism of breathing in humans during inhalation, with reference to the diaphragm and ribs. [qa_sa_tita]

- A. Model answer required (see explanation)

20.

SA (3 marks): Differentiate between arteries and veins on the basis of (i) wall thickness, (ii) presence of valves, (iii) direction of blood flow. [qa_sa_tita]

- A. Model answer required (see explanation)

21.

LA (5 marks): Describe with a labelled diagram the human nephron. Explain urine formation in three stages — filtration, reabsorption, and secretion. [qa_sa_tita]

- A. Model answer required (see explanation)

22.

Which one of the following is the basic structural and functional unit of the kidney? [factual_mcq_ncert]

- A. Neuron
- B. Nephron
- C. Alveolus
- D. Glomerulus only

23.

Reproductive part of an angiospermic plant where pollen grains are produced is the: [factual_mcq_ncert]

- A. Stigma
- B. Style
- C. Anther
- D. Ovary

24.

Which of the following statements about the human eye is INCORRECT? [statement_correct_mcq]

- A. The cornea provides most of the refraction
- B. The lens fine-tunes focus by changing shape
- C. The retina contains rods and cones
- D. The pupil is enlarged (dilated) in bright light

25.

Anne writes that 'paper has more patience than people' — this shows that Anne primarily wrote her diary for: [lit_extract_mcq]

- A. Her parents
- B. Her teacher Mr Keesing
- C. Herself, as a confidante
- D. Publication after the war

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