ICSE · CLASS 10 · BIOLOGY

ICSE Class 10 Biology Important Questions 2027

123 question patterns that repeated across past papers · the years show every time each was asked

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Cell Cycle and Cell Division

1. draw animal cell in metaphase with 4 chromosomes

Asked 2× · Board 2025, Sample 2027 · 3 marks

Draw a neat, labelled diagram of an animal cell having 4 chromosomes in the metaphase stage.

2. define / identify homologous chromosomes

Asked 2× · Sample 2024, Sample 2025 · 1/2 marks

A pair of corresponding chromosomes of the same shape, size and one from each parent is called: (a) Autosomes (b) Allosomes (c) Analogous chromosomes (d) Homologous chromosomes

3. what is synthesised in S phase (DNA)

Asked 2× · Board 2023, Sample 2024 · 1 marks

Synthesis phase in the cell cycle is called so, because of the synthesis of more: (a) Glucose (b) Proteins (c) RNA (d) DNA

4. differentiate karyokinesis and cytokinesis

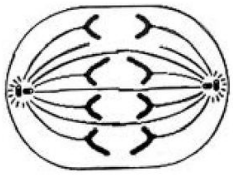
Asked 2× · Board 2023, Sample 2024 · 2 marks

Differentiate between Karyokinesis and Cytokinesis.

5. identify stage of mitosis from diagram + reason

Asked 2× · Board 2024, Sample 2023 · 3 marks

The diagram represents a stage in mitosis. (a) Identify the stage given above. (b) Give one reason to support your answer in (a). (c) Mention the number of chromosomes given in the diagram.



6. haploid chromosome number in sperms/gametes

Asked 2× · Board 2023, Board 2024 · 1 marks

A male gorilla has 48 chromosomes in each of its body cells. How many chromosomes will each of the sperms have? (a) 24 (b) 48 (c) 12 (d) 16

Structure of Chromosome

7. calculate complementary base-pair numbers

Asked 2× · Board 2026, Sample 2024 · 1 marks

A sequence of DNA has 300 nitrogenous base pairs, of which 75 are Guanine. What is the number of Thymine in this sequence? (a) 150 (b) 100 (c) 50 (d) 75

8. point joining chromatids of a chromosome

Asked 2× · Board 2024, Board 2025 · 1 marks

Read the explanation and name the structure: The point of attachment of two chromatids of a chromosome.

9. two base pairs bonded by hydrogen bonds

Asked 2× · Board 2023, Board 2025 · 2 marks

Mention the two pairs of nitrogenous bases that are present in a DNA strand and pair with each other by hydrogen bonds.

Genetics

10. state Mendel's Law of Segregation

Asked 4× · Board 2023, Sample 2023, Sample 2025, Sample 2027 · 1/2 marks

State Mendel's Law of Segregation of gametes.

11. differentiate phenotype and genotype

Asked 3× · Sample 2023, Sample 2024, Sample 2025 · 2 marks

Differentiate between the terms Phenotype and Genotype.

12. common/scientific name of Mendel's pea plant

Asked 2× · Sample 2025, Sample 2026 · 1/2 marks

Give the common name and the scientific name of the plant on which Gregor Mendel conducted his breeding experiments.

13. state Mendel's Law of Dominance

Asked 2× · Sample 2024, Sample 2026 · 1/2 marks

State Mendel's Law of Dominance.

14. number of autosomes and allosomes in human cell

Asked 2× · Board 2026, Sample 2026 · 1/2 marks

Mention the number of Autosomes and Allosomes in a human body cell.

15. define gene / basic unit of heredity

Asked 2× · Sample 2023, Sample 2025 · 1 marks

Name the following: The basic units of heredity.

16. name the suppressed / unexpressed allele

Asked 2× · Sample 2023, Sample 2024 · 1 marks

Name the following: The type of gene, which in the presence of a contrasting allele, is not expressed.

17. colour blindness inheritance in males

Asked 2× · Board 2026, Sample 2023 · 1/2 marks

A family has a history of colour blindness. The mother is a carrier (Xc X) and the father has normal vision (XY). What is the probability of their sons being colour blind? (a) 25% (b) 50% (c) 75% (d) 0%

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18. identify correct pair of genetic disorders

Asked 2× · Board 2024, Board 2026 · 1 marks

Four friends P, Q, R and S discussed examples of genetic disorders. P. Colour blindness and Malaria Q. Albinism and Cholera R. Haemophilia and Colour blindness S. Haemophilia and Albinism. Who gave the correct examples? (a) P and Q (b) R and S (c) P and R (d) Q and S

Absorption by Roots and Ascent of Sap

19. characteristics/adaptations of roots for absorbing water

Asked 3× · Board 2024, Sample 2025, Sample 2027 · 1/2 marks

Root hairs are epidermal outgrowths well suited for absorption of water due to: P - Large surface area, Q - Lower concentration of cell sap, R - Higher concentration of cell sap, S - Freely permeable cell membrane. (a) P and S (b) Q and S (c) P and R (d) R and S

20. water loss in hypertonic solution (exosmosis)

Asked 2× · Sample 2025, Sample 2027 · 1 marks

Meena's mother prepared a cucumber salad garnished with salt and pepper. After some time a lot of water accumulated in the salad bowl. The cucumber slices underwent: (a) active transport (b) transpiration (c) exosmosis (d) endosmosis

21. draw labelled diagram of a root hair

Asked 2× · Sample 2025, Sample 2026 · 3 marks

Draw a neat, labelled diagram to show the internal structure of a root hair.

22. arrange radial path of water absorption

Asked 3× · Board 2023, Sample 2023, Sample 2024 · 1 marks

Arrange and rewrite the terms in correct logical sequence beginning with the underlined term: Endodermis, Cortex, Xylem, Epidermis.

23. permeability of cell wall vs cell membrane

Asked 2× · Sample 2023, Sample 2026 · 2 marks

State the permeability of cell membrane and cell wall.

24. marine/salt fish in freshwater bursts (endosmosis)

Asked 2× · Sample 2023, Sample 2024 · 1 marks

Hari placed a salt water clown fish in a freshwater aquarium and after a few hours it was found dead and floating. This was due to: (a) Endosmosis (b) Exosmosis (c) Osmoregulation (d) Excretion

25. salt in pickles inhibits microbes (hypertonic)

Asked 2× · Board 2026, Sample 2023 · 1/2 marks

Varun's mother added plenty of salt to the mango pickle she made. This is to: A. enhance the colour of the pickle. B. inhibit the growth of microorganisms. C. increase the nutritional value. D. create a hypertonic solution. (a) A and C (b) B and C (c) C and D (d) B and D

26. define / explain active transport

Asked 2× · Board 2023, Sample 2025 · 1/2 marks

Explain the term - Active transport.

Transpiration

27. effect of humidity/temperature on transpiration

Asked 3× · Sample 2025, Sample 2026, Sample 2027 · 2 marks

Explain how the process (transpiration) will differ on a rainy day.

28. wilting on a hot day despite watered soil

Asked 3× · Board 2026, Sample 2023, Sample 2027 · 1/2 marks

Avinash placed a potted plant on a windowsill on a hot summer morning; the leaves wilted though the soil was well watered, and regained turgidity indoors. Name the process responsible for the wilting of leaves.

29. openings on bark for transpiration (lenticels)

Asked 3× · Board 2023, Sample 2025, Sample 2027 · 1 marks

Give the biological/technical term: Respiratory openings present on the stems of woody plants.

30. adaptations in plants to reduce transpiration

Asked 3× · Board 2023, Board 2026, Sample 2027 · 1/2/3 marks

List three adaptations in plants to reduce this process (transpiration).

31. define / identify guttation

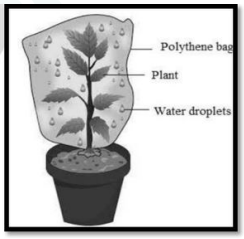
Asked 3× · Board 2024, Sample 2023, Sample 2024 · 1 marks

The process in which water is lost from the margins of strawberry leaves is: (a) Osmosis (b) Imbibition (c) Diffusion (d) Guttation

32. identify transpiration from a demonstration experiment

Asked 2× · Sample 2023, Sample 2026 · 2/3 marks

Meena covered a potted plant with a transparent plastic bag and observed water droplets inside the bag after a few hours in sunlight. (a) Name the process that resulted in the formation of water droplets inside the bag. (b) Define the process mentioned above.



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33. define transpiration

Asked 2× · Board 2023, Sample 2027 · 1/2 marks

Define the above process (responsible for wilting of leaves).

Photosynthesis

34. write the overall balanced equation of photosynthesis

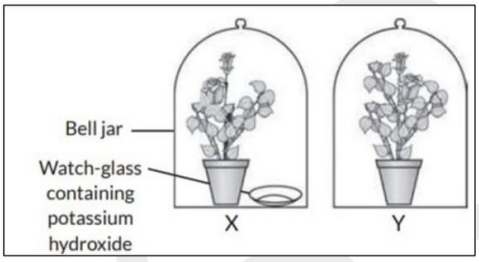
Asked 6× · Board 2023, Board 2025, Board 2026, Sample 2024, Sample 2025, Sample 2027 · 1/2 marks

Write the balanced equation for photosynthesis. Name the mineral element essential for the formation of chlorophyll.

35. KOH experiment proving CO2 needed for photosynthesis

Asked 3× · Board 2024, Sample 2027 · 1/2/5 marks

A potted plant under a bell jar with a watch glass containing potassium hydroxide is placed in sunlight for three hours; after exposure none of the leaves of plant X turned blue black with iodine, while control plant Y did. What is the aim of the experiment?

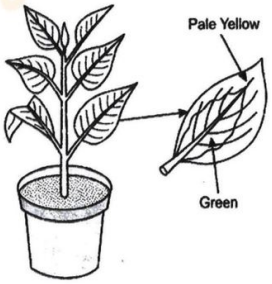


(i) What is the aim of the experiment? [1]

36. starch test on variegated leaf shows chlorophyll needed

Asked 3× · Board 2023, Sample 2024, Sample 2026 · 2/3 marks

A potted plant with variegated leaves was kept in dark for 24 hours then placed in bright sunlight. Answer: (a) Which aspect of photosynthesis is being tested? (b) Why was the plant kept in dark for 24 hours? (c) After the starch test what will be the colour of the yellow and green parts of the leaf? Give reasons.



37. ground substance of chloroplast (stroma)

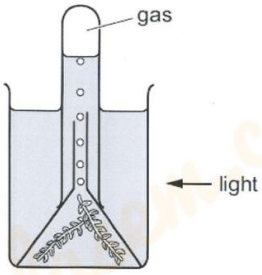
Asked 2× · Sample 2024, Sample 2026 · 1 marks

Give the biological/technical term: The ground substance present in a chloroplast.

38. experiment showing oxygen release (aquatic plant)

Asked 2× · Board 2025, Sample 2024 · 3 marks

Study the diagram (aquatic plant releasing gas in sunlight). (a) Name the gas released when the setup was placed in sunlight. (b) Give an example of an aquatic plant that can be used in the above experiment. (c) What will happen if a pinch of Sodium bicarbonate is added to the water?



(a) Name the gas released when the setup was placed in sunlight.

39. expand the abbreviation NADP

Asked 2× · Board 2024, Board 2026 · 1/2 marks

Expand the abbreviations: (a) NADP (b) ADP.

40. site of light reaction (grana of chloroplast)

Asked 2× · Board 2023, Sample 2023 · 1 marks

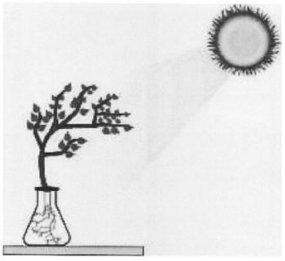
The site of light reaction in the cells of a green leaf is: (a) Nucleus (b) Grana of chloroplast (c) Cytoplasm (d) Stroma of chloroplast

Chemical Coordination in Plants

41. shoot bending to light: phototropism driven by auxin

Asked 3× · Board 2023, Sample 2024, Sample 2027 · 2/3 marks

Study the diagram (potted plant bending towards sunlight). (a) Name the phenomenon depicted by the shoot. (b) Which plant hormone plays an important role in the above movement? (c) Name one stimulus which gives a positive response for the roots but negative response for the shoot.



(a) Name the phenomenon depicted by the shoot in the above diagram.

42. define parthenocarpy with example

Asked 2× · Sample 2023, Sample 2025 · 2 marks

What is Parthenocarpy? Give one example.

43. gaseous hormone that ripens fruit (ethylene)

Asked 2× · Board 2023, Sample 2026 · 1 marks

A farmer notices that storing ripe mangoes with unripe ones speeds up the ripening process. The phytohormone primarily responsible is: (a) Auxins (b) Cytokinins (c) Gibberellins (d) Ethylene

44. odd one out among plant hormones (oxytocin)

Asked 2× · Board 2026, Sample 2023 · 1 marks

Choose the odd one out and name the category to which the others belong: Auxin, Oxytocin, Gibberellin, Cytokinin.

45. tendrils twining around support (thigmotropism)

Asked 2× · Board 2024, Board 2026 · 1/3 marks

Ali has some pea plants which need a support to grow. (a) Name the phenomenon depicted by the shoot. (b) Define the above phenomenon. (c) Write the name of the part marked X.

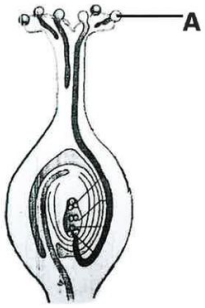
picture given below:



46. tropic movement towards chemicals (chemotropism)

Asked 2× · Board 2024, Sample 2023 · 1/3 marks

The diagram shows a type of tropism (pollen tube growing towards the ovule). (a) Name the type of tropism. (b) Define the above mentioned tropism. (c) Give an example of a stimulant that helps in the growth of the part marked A.



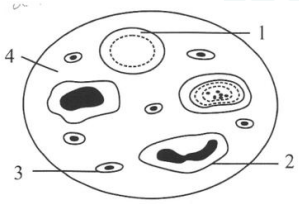
(a) Name the type of tropism.

Circulatory System

47. diagram of a human blood smear (RBC/WBC/platelets)

Asked 2× · Sample 2024, Sample 2027 · 3 marks

Diagram of human blood smear. (a) Mention one structural difference between 1 and 2. (b) What is the function of part 3? (c) Name the part labelled 4.



48. correct sequence of pulmonary/systemic circulation

Asked 2× · Board 2026, Sample 2027 · 1 marks

The path of blood flow during pulmonary circulation is: (a) Right auricle, Right ventricle, Pulmonary artery, Lungs, Pulmonary veins, Left auricle. (b) Left auricle, Left ventricle, Pulmonary veins, Lungs, Pulmonary artery, Right auricle. (c) Left auricle, Left ventricle, Aorta, Tissues, Vena cava, Right auricle. (d) Right auricle, Right ventricle, Pulmonary veins, Lungs, Pulmonary artery, Left auricle.

49. odd one out among clotting factors

Asked 2× · Board 2024, Sample 2027 · 1 marks

Choose the ODD term out and mention the category to which the remaining three belong: Haemoglobin, Fibrin, Prothrombin, Fibrinogen.

50. odd one out: monocyte among granulocytes

Asked 2× · Board 2024, Sample 2027 · 1 marks

Choose the ODD term out and mention the category to which the remaining three belong: Neutrophil, Monocyte, Eosinophil, Basophil.

51. draw cross sections of artery and vein

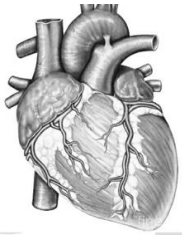
Asked 2× · Sample 2023, Sample 2026 · 3 marks

Draw a neat, labelled diagram of a cross section of an Artery and a Vein.

52. fill blanks on heart structure (pericardium, vessels, chordae)

Asked 2× · Board 2025, Sample 2026 · 5 marks

Diagram of a human heart. Fill in the blanks: The heart is enclosed by a membrane called (a) _____ (Pericardium/Pleura). The ventricles give rise to two large blood vessels called (b) _____ (Pulmonary vein/Pulmonary artery) and (c) _____ (Aorta/Venacava). The flaps of the cuspid valves are kept in position by (d) _____ (Chordae tendinae/Endometrium). (e) _____ (Hepatic/Coronary) arteries supply oxygenated blood to the walls of the heart.



53. valve state during ventricular systole

Asked 2× · Board 2026, Sample 2025 · 1 marks

During the ventricular systole, the atrioventricular valves (P) _____ and the semilunar valves (Q) _____. (a) P - close and Q - open (b) P - close and Q - close (c) P - open and Q - close (d) P - open and Q - open

54. structural differences between artery and vein

Asked 2× · Board 2024, Sample 2024 · 2 marks

Mention two structural differences between an artery and a vein.

55. advantage of RBCs lacking a nucleus

Asked 2× · Board 2024, Board 2026 · 1/2 marks

RBCs do not have nuclei. Discuss its advantage.

Excretory System

56. define / explain excretion

Asked 3× · Board 2025, Sample 2023, Sample 2026 · 1 marks

What is Excretion?

57. region of kidney holding glomerulus / loop of Henle

Asked 2× · Sample 2025, Sample 2026 · 1/2 marks

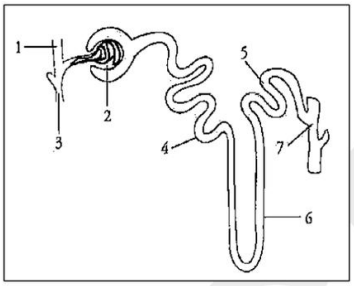
Mention the regions of the kidney where we can find glomerulus and Henle's loop.

58. distribution of nephron parts in renal cortex/medulla

Asked 2× · Board 2023, Sample 2027 · 1/2 marks

Which parts of the nephron are present in the renal cortex and renal medulla? (a) Renal Cortex - 1, 2, 3; Renal Medulla - 4, 5, 6, 7 (b) Renal Cortex - 1, 2, 3, 4, 5; Renal Medulla - 6, 7 (c) Renal Cortex - 4, 5, 6, 7; Renal Medulla - 1, 2, 3 (d) Renal Cortex - 1, 2, 3, 4; Renal Medulla - 5, 6, 7

medulla?



59. more urination in winter/less in summer (sweating)

Asked 2× · Sample 2024, Sample 2025 · 1 marks

Assertion (A): We urinate more in summer. Reason (R): Sweat glands are more active in summer. (a) A is True and R is False (b) A is False and R is True (c) Both A and R are True (d) Both A and R are False

60. odd one out: uterus among urinary organs

Asked 2× · Board 2023, Sample 2026 · 1 marks

Choose the odd term out and mention the category to which the remaining three belong: Ureter, Urethra, Uterus, Renal Pelvis.

61. odd one out among nitrogenous wastes/urine constituents

Asked 2× · Board 2026, Sample 2024 · 1 marks

Choose the odd one out and name the category to which the others belong: Urochrome, Urea, Uric acid, Nucleic acid.

Nervous System and Sense Organs

62. tube connecting pharynx/throat to middle ear

Asked 3× · Board 2025, Sample 2025, Sample 2026 · 1/2 marks

Which part of the ear equalizes air pressure on either side of the ear drum? Where is this structure located?

63. photoreceptors (rods and cones) in the retina

Asked 3× · Sample 2023, Sample 2024, Sample 2025 · 1/2 marks

Assertion (A): Rods and Cones are photoreceptors in the sclera of eyeball. Reason (R): Rods are sensitive to dim light. (a) A is True and R is False. (b) A is False and R is True. (c) Both A and R are True. (d) Both A and R are False.

64. arrange path of sound through the ear

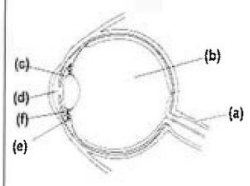
Asked 3× · Sample 2023, Sample 2024, Sample 2025 · 1 marks

Arrange and rewrite the terms in correct logical sequence beginning with the underlined term: Auditory canal, Organ of Corti, Stapes, Malleus.

65. match/name eye parts with their functions

Asked 2× · Sample 2025, Sample 2026 · 5 marks

Cross section of the human eye. Match the structures marked (a) to (e) with their correct functions: Functions - 1. Protects retina 2. Regulates the size of the pupil 3. Alters the shape of the lens 4. Keeps the lens moist 5. Transmits nerve impulses to brain 6. Holds the lens in position.

Cross section of Human Eye	Functions
	1. Protects retina 2. Regulates the size of the pupil 3. Alters the shape of the lens 4. Keeps the lens moist 5. Transmits nerve impulses to brain 6. Holds the lens in position

[Analysis]

66. long/old-age sight defect corrected by convex lens

Asked 2× · Board 2026, Sample 2027 · 2/3 marks

What is the reason for Hyperopia? How can it be corrected?

67. neurotransmitter (acetylcholine) at the synapse

Asked 2× · Board 2026, Sample 2027 · 1/2 marks

Give the biological/technical term: The neurotransmitter stored in the axon endings of neurons.

68. fluid between the meninges (CSF)

Asked 2× · Board 2026, Sample 2026 · 1/2 marks

(a) Name the fluid present between the meninges in spinal cord. (b) What is its function?

69. inserting object into ear ruptures the eardrum

Asked 2× · Sample 2024, Sample 2025 · 1 marks

Rahul inserted a hairpin into his right ear to remove ear wax. He felt a sudden sharp pain with loss of hearing. This was due to: (a) Rupture of eardrum (b) Rupture of vestibule (c) Rupture of cornea (d) Rupture of pinna

70. sympathetic (fight-or-flight) effects e.g. heartbeat

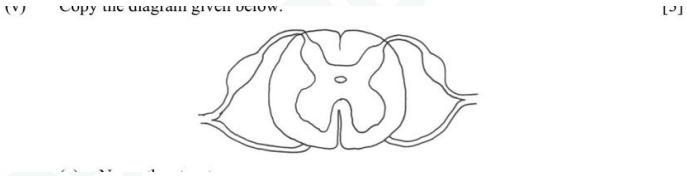
Asked 3× · Board 2023, Board 2024, Board 2026 · 1 marks

Bharat woke up late and missed the school bus. This situation stimulated the nerves of the sympathetic system which resulted in: (a) Constriction of Coronary arteries (b) Muscle relaxation (c) Decrease in Respiration rate (d) Bronchodilation

71. spinal cord TS: grey and white matter

Asked 2× · Board 2026, Sample 2025 · 3/5 marks

Copy the diagram (transverse section of spinal cord). (a) Name the structure. (b) Label Gray matter and White matter.



72. arrange the path of light through the eye

Asked 3× · Board 2023, Board 2024, Sample 2023 · 1 marks

Arrange and rewrite the terms in correct logical sequence beginning with the underlined term: Pupil, Aqueous humour, Retina, Vitreous humour.

73. scenario: brain part for concentration vs coordination

Asked 2× · Board 2024, Sample 2026 · 2/3 marks

Ayush was focussing intently on the strokes of the opponent player in a carrom match. (a) Which part of the brain helps Ayush to focus on the game? (b) Name the part of the brain that co-ordinates his muscles while using the striker.

74. semicircular canals maintain dynamic balance

Asked 2× · Board 2025, Sample 2025 · 2/3 marks

Rachna, an expert gymnast on the balance beam, has been experiencing dizziness and losing her balance. (a) Which part of the membranous labyrinth is responsible for maintaining the body balance on the beam? (b) Which type of balance is maintained by the structure mentioned in (a)?

75. exact location of the corpus callosum

Asked 2× · Sample 2023, Sample 2024 · 1 marks

Mention the exact location of Corpus callosum.

76. short sight (myopia) corrected by concave lens

Asked 2× · Board 2024, Sample 2024 · 3/5 marks

Mahesh couldn't see the blurred diagram clearly. (a) Name the defect of the eye Mahesh is suffering from. (b) Where is the image formed in this defect? (c) Which type of lens do his spectacles have?

77. eye defect: some parts focused, others blurred

Asked 2× · Board 2024, Board 2026 · 1 marks

Give the biological/technical term: A defect in our eye in which some parts of the object are in focus while the other parts are blurred.

78. functions of cerebrum and cerebellum

Asked 2× · Board 2023, Sample 2024 · 2 marks

Mention one function each for - Cerebrum and Cerebellum.

79. accommodation - focusing by ciliary muscles

Asked 2× · Board 2024, Sample 2023 · 1 marks

Adjusting the focal length of the eye lens to view objects at different distances is done by: (a) Cornea (b) Iris (c) Ciliary muscles (d) Sclera

80. ossicle opening into oval window of inner ear

Asked 2× · Board 2024, Board 2025 · 1 marks

Name the following: The ear ossicle which opens into the oval window of Cochlea.

81. arrange the reflex arc pathway

Asked 2× · Board 2023, Board 2024 · 1 marks

Arrange and rewrite the terms in correct logical sequence beginning with the underlined term: Effector, Receptor, Motor neuron, Sensory neuron.

82. parts of ear for static vs dynamic equilibrium

Asked 2× · Board 2023, Board 2024 · 2 marks

Which parts of the ear are responsible for: (a) Static equilibrium? (b) Dynamic equilibrium?

Endocrine System

83. adrenal virilism - androgen hypersecretion

Asked 3× · Board 2026, Sample 2027 · 1/2 marks

Pallavi, a 30-year-old woman, showed male characteristics such as growth of moustache, beard and chest hair, diagnosed as a hormonal disorder. Mention the biological term for the disorder.

84. mineral (iodine) needed for thyroxine synthesis

Asked 3× · Board 2024, Sample 2023, Sample 2025 · 1/2 marks

Mention the significance of the following minerals: (a) Iodine in our food. (b) Magnesium for green plants.

85. adrenaline as the stress/emergency hormone

Asked 2× · Sample 2025, Sample 2026 · 1 marks

Reena gets emotionally stressed when the school examinations are approaching. Which hormone is responsible for this condition? (a) Adrenaline (b) Thyroxine (c) Insulin (d) Growth hormone

86. odd one out: ADH/vasopressin among pituitary hormones

Asked 2× · Board 2026, Sample 2027 · 1 marks

Choose the ODD term out and mention the category to which the remaining three belong: TSH, ADH, ACTH, FSH.

87. define / explain the term hormone

Asked 2× · Board 2024, Sample 2027 · 1/2 marks

Explain the term hormone.

88. differentiate diabetes mellitus and insipidus

Asked 2× · Board 2024, Sample 2026 · 2 marks

Differentiate between Diabetes mellitus and Diabetes insipidus with reference to the hormone involved.

89. gland secreting glucagon and its effect

Asked 2× · Board 2023, Sample 2023 · 1/2 marks

Alpha cells of Pancreas secrete: (a) Glycogen (b) Glucose (c) Glucagon (d) Insulin

The Reproductive System

90. onset of menstruation (menarche)

Asked 3× · Sample 2025, Sample 2026 · 1 marks

The onset of menstruation in a human female is called: (a) Menopause (b) Menarche (c) Ovulation (d) Oogenesis

91. labelled diagram/parts of a human sperm

Asked 4× · Board 2023, Board 2026, Sample 2024, Sample 2025 · 3/5 marks

Diagram of a human sperm. Fill in the blanks: The head has a cap-like organelle called (a) _____ (Lysosome/Acrosome) which produces an enzyme (b) _____ (Hyaluronidase/Amylase) that dissolves the outer layer of the ovum. The nucleus has (c) _____ (23/46) chromosomes. The middle piece has (d) _____ (Chloroplast/Mitochondria) to provide energy for motility. (e) _____ (Semen/Hymen) is a mixture of sperms and fluids produced by the male accessory glands.



92. identical vs fraternal twins

Asked 2× · Sample 2026, Sample 2027 · 2 marks

State one difference between identical twins and fraternal twins.

93. functions/significance of the placenta

Asked 3× · Board 2023, Board 2026, Sample 2024 · 2 marks

A 28-year-old pregnant lady is told the foetus is growing normally and the placenta is functioning well. (a) Mention one function of the placenta. (b) What connects the placenta to the foetus?

94. canal through which testes descend to scrotum

Asked 2× · Board 2025, Sample 2027 · 1 marks

Give the biological/technical term: The canal through which the testes descend into the scrotum just before the birth of a male baby.

95. arrange the path of sperm
Asked 3× · Board 2023, Board 2025, Sample 2023 · 1 marks

Arrange the terms in correct logical sequence beginning with the underlined term: Sperm duct, Seminiferous tubule, Epididymis, Efferent ducts.

96. Leydig cells secrete testosterone
Asked 2× · Board 2026, Sample 2025 · 1/2 marks

What is the role of the following? (a) Leydig cells (b) Seminiferous tubules.

97. sequence of morula/blastocyst/embryo/foetus
Asked 2× · Board 2026, Sample 2024 · 1 marks

Choose the odd one out and name the category to which the others belong: Morula, Blastocyst, Oviduct, Foetus.

98. differentiate menarche and menopause
Asked 2× · Sample 2023, Sample 2024 · 2 marks

Differentiate between Menarche and Menopause.

99. significance of testes in scrotal sacs
Asked 2× · Board 2023, Sample 2025 · 2 marks

What is the significance of Testes being placed in Scrotal sacs?

100. two functions of amniotic fluid
Asked 2× · Board 2025, Sample 2023 · 2 marks

Mention any two functions of amniotic fluid.

Population

101. reasons for high birth rate / population explosion
Asked 4× · Board 2023, Board 2024, Sample 2023, Sample 2027 · 2 marks

Mention two reasons for population explosion in India.

102. natality/birth rate - live births per thousand per year
Asked 3× · Board 2024, Board 2025, Sample 2026 · 1 marks

Explain the term Natality.

103. statistical study of human population (demography)
Asked 3× · Board 2023, Sample 2023, Sample 2025 · 1 marks

Name the following: The statistical study of human population.

104. resources under pressure from rising population
Asked 2× · Board 2023, Sample 2027 · 2/3 marks

List any three resources that come under pressure due to rising population.

105. surgical methods of contraception in men and women
Asked 2× · Board 2023, Sample 2025 · 2 marks

Mention the surgical methods of contraception in: (a) Men (b) Women.

106. surgical contraception in females (tubectomy)
Asked 2× · Board 2024, Board 2026 · 1 marks

Give the biological/technical term: The surgical technique for females that can be used to prevent pregnancy.

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107. explain population density

Asked 2× · Board 2023, Board 2026 · 1 marks

Explain the term 'Population Density' with reference to human beings.

Human Evolution

108. define/identify vestigial organs with examples

Asked 4× · Board 2025, Sample 2024, Sample 2025, Sample 2027 · 1/2 marks

Choose the ODD term out and mention the category to which the remaining three belong: Wisdom tooth, Pinna, Tongue, Vermiform appendix.

109. features of Australopithecus

Asked 2× · Sample 2026, Sample 2027 · 2 marks

Mention two characteristic features of Australopithecus.

110. peppered moth as example of industrial melanism

Asked 3× · Board 2024, Board 2025, Sample 2026 · 1 marks

Industrial melanism is the phenomenon by which the peppered moth: (a) die due to industrial growth. (b) in polluted areas, became darker in colour for better camouflage. (c) became lighter in colour due to natural selection. (d) became resistant to industrial pollution.

111. who proposed the theory of natural selection

Asked 2× · Board 2026, Sample 2027 · 1/2 marks

Who proposed the theory of 'Natural Selection'?

112. scientific name of modern man (Homo sapiens)

Asked 2× · Board 2026, Sample 2024 · 1 marks

What is the scientific name of modern man?

113. features of Cro-Magnon man

Asked 2× · Board 2025, Sample 2024 · 2 marks

Give any two characteristic features of a Cro-Magnon man.

Pollution

114. objectives/aim of Swachh Bharat Abhiyan

Asked 6× · Board 2024, Board 2025, Board 2026, Sample 2024, Sample 2025, Sample 2026 · 1/2 marks

What does Swachh Bharat Abhiyan aim to achieve in India? (a) Increase in deforestation to dump waste. (b) Expansion of landfill areas to accommodate more waste. (c) Improved sanitation and solid waste management. (d) Greater industrial waste production.

115. biomedical (hospital) waste - define/identify

Asked 4× · Board 2023, Board 2025, Board 2026, Sample 2024 · 1/2/3 marks

Study the picture (waste bin with gloves, syringes, tablets). (a) Name the category of waste that is being disposed. (b) Give an example of such a waste. (c) Are they hazardous to humans and animals? Give a suitable reason to justify your answer.



(a) Name the category of waste that is being disposed.

(b) Give an example of such a waste.

116. harmful effects of noise pollution

Asked 3× · Board 2024, Board 2025, Sample 2025 · 2 marks

State any two disadvantages of living close to an airport.

117. pick biodegradable/odd non-biodegradable waste

Asked 3× · Board 2024, Board 2026, Sample 2024 · 1/2 marks

Select and write the two biodegradable wastes from the given list: Styrofoam, Metallic cans, Decaying fruits, Plastic bottles, Newspapers.

118. harmful effects of acid rain

Asked 3× · Board 2024, Board 2025, Sample 2023 · 2 marks

State any two harmful effects of acid rain.

119. global warming and climate change

Asked 2× · Board 2023, Sample 2027 · 1/3 marks

For the past few years there has been irregular rainfall, leading to crop failures and water shortages. This is a result of: (a) climate change (b) soil erosion (c) earth rotation (d) acid rain

120. define pollution

Asked 2× · Sample 2023, Sample 2025 · 1 marks

Name the following: The undesirable change in the environment leading to its deterioration.

121. odd one out among air pollutants

Asked 2× · Board 2023, Sample 2026 · 1 marks

Choose the odd term out and mention the category to which the remaining three belong: Sulphur dioxide, Oxygen, Carbon monoxide, Nitrogen dioxide.

122. identify/give examples of water pollutants

Asked 2× · Board 2024, Sample 2023 · 1/2 marks

Give two examples of water pollutants.

123. identify the biodegradable substance

Asked 2× · Board 2023, Sample 2023 · 1 marks

Which one of the following is a biodegradable waste? (a) Metal cans (b) E-waste (c) Plastic (d) Flowers

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