

CDS (1) 2026: Science Practice MCQs

Instructions: For each question, choose the correct answer from the options A, B, C, D.

Physics

1. A force of 10 N is applied on a body of mass 2 kg. What is the acceleration produced?

- A. 5 m/s^2
- B. 10 m/s^2
- C. 20 m/s^2
- D. 0.5 m/s^2

2. The SI unit of pressure is:

- A. Joule
- B. Newton
- C. Pascal
- D. Watt

3. Which of the following is a vector quantity?

- A. Mass
- B. Speed
- C. Distance
- D. Force

4. A person is standing in a stationary bus. When the bus starts moving forward suddenly, the person tends to fall backwards. This is an example of:

- A. Newton's First Law of Motion
- B. Newton's Second Law of Motion
- C. Newton's Third Law of Motion
- D. Law of Conservation of Momentum

5. The mirror used by a dentist to see an enlarged image of a tooth is:

- A. Plane mirror
- B. Concave mirror
- C. Convex mirror
- D. Cylindrical mirror

6. The persistence of sound in a big hall due to repeated reflections is called:

- A. Amplitude
- B. Echo
- C. Reverberation
- D. Resonance

7. The device used to measure the depth of the ocean is based on the principle of:

- A. Echo
- B. Interference
- C. Refraction
- D. Resonance

8. Which of the following is NOT a good conductor of electricity?

- A. Silver
- B. Copper
- C. Rubber
- D. Aluminium

9. The fuse wire in an electrical circuit is always connected to the:

- A. Neutral wire
- B. Earth wire
- C. Live wire
- D. Can be connected to any wire

10. A magnetic needle is kept in a non-uniform magnetic field. It experiences:

- A. A force only
- B. A torque only
- C. Both a force and a torque
- D. Neither a force nor a torque

11. The energy stored in a dry cell is in the form of:

- A. Mechanical energy
- B. Electrical energy
- C. Chemical energy
- D. Heat energy

12. The image formed on the retina of a human eye is:

- A. Virtual and erect
- B. Real and inverted
- C. Virtual and inverted
- D. Real and erect

13. The splitting of white light into its constituent colours is called:

- A. Reflection
- B. Refraction
- C. Dispersion
- D. Scattering

14. The sky appears blue due to:

- A. Reflection of light
- B. Refraction of light
- C. Scattering of light
- D. Dispersion of light

15. A man is standing in front of a plane mirror. The distance between the man and his image is 4 meters. If he moves 1 m towards the mirror, the new distance between the man and his image will be:

- A. 2 m
- B. 3 m
- C. 4 m
- D. 6 m

Chemistry

16. The chemical formula of Baking Soda is:

- A. Na_2CO_3
- B. NaHCO_3
- C. NaOH
- D. Ca(OH)_2

17. Which of the following is an example of a chemical change?

- A. Melting of ice
- B. Dissolution of salt in water
- C. Rusting of iron
- D. Tearing of paper

18. The pH of a neutral solution is:

- A. 0
- B. 7
- C. 10
- D. 14

19. The gas used in the purification of water is:

- A. Oxygen
- B. Chlorine
- C. Nitrogen
- D. Carbon dioxide

20. Which of the following metals is stored in kerosene oil?

- A. Iron
- B. Copper
- C. Sodium
- D. Platinum

21. The hardest naturally occurring substance is:

- A. Iron
- B. Diamond
- C. Graphite
- D. Gold

22. The anode in a galvanic cell is:

- A. Positive electrode
- B. Negative electrode
- C. Neutral electrode
- D. Can be positive or negative

23. Which of the following is a noble gas?

- A. Hydrogen
- B. Oxygen
- C. Nitrogen
- D. Helium

24. The process of converting vegetable oil into vegetable ghee is known as:

- A. Hydrogenation
- B. Oxidation
- C. Condensation
- D. Saponification

25. The major component of CNG (Compressed Natural Gas) is:

- A. Methane
- B. Ethane
- C. Propane
- D. Butane

26. The acid present in vinegar is:

- A. Acetic acid
- B. Citric acid
- C. Lactic acid
- D. Formic acid

27. Which of the following is NOT a greenhouse gas?

- A. Carbon Dioxide
- B. Methane
- C. Nitrous Oxide
- D. Nitrogen

28. Teflon, a non-stick coating, is a polymer of:

- A. Ethylene
- B. Tetrafluoroethylene
- C. Vinyl Chloride
- D. Styrene

29. The chemical name of 'Plaster of Paris' is:

- A. Calcium Sulphate Hemihydrate
- B. Calcium Carbonate
- C. Calcium Hydroxide
- D. Gypsum

30. Which gas is produced when metal carbonates react with acids?

- A. Hydrogen
- B. Oxygen
- C. Carbon Dioxide
- D. Nitrogen

Biology

31. The powerhouse of the cell is:

- A. Nucleus
- B. Mitochondria
- C. Ribosome
- D. Golgi apparatus

32. Which of the following is a nitrogen-fixing bacteria?

- A. Rhizobium
- B. Lactobacillus
- C. Yeast
- D. E. coli

33. The process by which plants make their food is called:

- A. Digestion
- B. Photosynthesis

- C. Respiration
- D. Transpiration

34. The smallest blood vessel in the human body is:

- A. Artery
- B. Vein
- C. Capillary
- D. Aorta

35. Which part of the human brain is responsible for maintaining posture and balance?

- A. Cerebrum
- B. Cerebellum
- C. Medulla Oblongata
- D. Hypothalamus

36. The universal recipient blood group is:

- A. A
- B. B
- C. AB
- D. O

37. Malaria is caused by a:

- A. Virus
- B. Bacterium
- C. Protozoan
- D. Fungus

38. Which gland in the human body is called the "master gland"?

- A. Thyroid
- B. Pituitary
- C. Adrenal
- D. Pancreas

39. The male reproductive part of a flower is:

- A. Stamen
- B. Pistil
- C. Petal
- D. Sepal

40. Iodine deficiency in the diet can lead to:

- A. Goitre
- B. Anaemia
- C. Scurvy
- D. Rickets

41. The process of shedding of old skin by a snake is called:

- A. Hibernation
- B. Metamorphosis
- C. Moulting
- D. Camouflage

42. Which of the following vitamins is produced in the human body when exposed to sunlight?

- A. Vitamin A

- B. Vitamin B12
- C. Vitamin C
- D. Vitamin D

43. The functional unit of the kidney is:

- A. Neuron
- B. Nephron
- C. Alveoli
- D. Villi

44. The cell organelle responsible for protein synthesis is:

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

45. Which of the following is not a part of the human digestive system?

- A. Trachea
- B. Esophagus
- C. Stomach
- D. Small Intestine

46. The red colour of blood is due to the presence of:

- A. Haemoglobin
- B. Plasma
- C. Platelets
- D. Lymph

47. The process of cell division that results in the formation of gametes is:

- A. Mitosis
- B. Meiosis
- C. Fission
- D. Budding

48. Which of these is a communicable disease?

- A. Diabetes
- B. Cancer
- C. Tuberculosis
- D. Arthritis

49. The part of the plant that conducts water and minerals from the roots to the leaves is:

- A. Phloem
- B. Xylem
- C. Cortex
- D. Cambium

50. The scientific study of insects is known as:

- A. Entomology
 - B. Ornithology
 - C. Ecology
 - D. Pathology
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Answer Key

1. A
2. C
3. D
4. A
5. B
6. C
7. A
8. C
9. C
10. C
11. C
12. B
13. C
14. C
15. A
16. B
17. C
18. B
19. B
20. C
21. B
22. B
23. D
24. A
25. A
26. A
27. D
28. B
29. A
30. C
31. B
32. A
33. B
34. C
35. B
36. C
37. C
38. B
39. A
40. A
41. C
42. D
43. B
44. C
45. A
46. A
47. B
48. C
49. B
50. A