

UPSC NDA 1 2026: Highly Expected Science Questions (50 MCQs)

Instructions: Each question has four options. Choose the correct answer.

Physics (17 Questions)

1. **The SI unit of luminous intensity is:**
 - a) Candela
 - b) Lumen
 - c) Lux
 - d) Watt
2. **A body is projected horizontally from the top of a cliff. Its path is:**
 - a) A straight line
 - b) A circle
 - c) A parabola
 - d) A hyperbola
3. **Newton's First Law of Motion is also known as:**
 - a) Law of Momentum
 - b) Law of Inertia
 - c) Law of Energy Conservation
 - d) Law of Force
4. **The working principle of a washing machine is:**
 - a) Centripetal force
 - b) Centrifugal force
 - c) Gravitational force
 - d) Frictional force
5. **Which of the following is a scalar quantity?**
 - a) Force
 - b) Velocity
 - c) Momentum
 - d) Work
6. **The splitting of white light into its constituent colours is called:**
 - a) Reflection
 - b) Refraction
 - c) Dispersion
 - d) Scattering
7. **A person sitting in an artificial satellite of the Earth feels weightlessness because:**
 - a) The Earth does not attract the objects in the satellite.
 - b) The satellite is too far from the Earth.
 - c) The gravitational force of the Earth provides the necessary centripetal force.
 - d) The mass of the satellite is negligible.
8. **Sound waves cannot travel through a:**
 - a) Solid
 - b) Liquid
 - c) Gas
 - d) Vacuum
9. **The lens used to correct myopia (short-sightedness) is:**
 - a) Convex Lens
 - b) Concave Lens
 - c) Cylindrical Lens
 - d) Bifocal Lens
10. **The value of 'g' (acceleration due to gravity) is maximum at the:**
 - a) Equator
 - b) Poles
 - c) Top of Mount Everest
 - d) Centre of the Earth
11. **Which of the following is NOT a greenhouse gas?**
 - a) Carbon Dioxide (CO_2)
 - b) Methane (CH_4)
 - c) Nitrous Oxide (N_2O)
 - d) Nitrogen (N_2)
12. **The process by which a liquid changes into a vapour at its boiling point is called:**
 - a) Evaporation
 - b) Condensation
 - c) Boiling
 - d) Sublimation
13. **Which mirror is used as a rear-view mirror in vehicles?**
 - a) Plane Mirror
 - b) Concave Mirror
 - c) Convex Mirror
 - d) Spherical Mirror
14. **The nuclear reactor at the Kudankulam Nuclear Power Plant is based on:**
 - a) Fast Breeder Reactor
 - b) Pressurized Heavy Water Reactor (PHWR)
 - c) Boiling Water Reactor (BWR)
 - d) Pressurized Water Reactor (PWR)
15. **The device used to measure the depth of the ocean is based on the principle of:**
 - a) Echo

- b) Interference
 - c) Refraction
 - d) Resonance
16. **A fuse wire is used in an electric circuit to:**
- a) Complete the circuit
 - b) Break the circuit in case of overloading
 - c) Increase the current flow
 - d) Reduce power consumption
17. **Which law explains the working of a hydraulic lift?**
- a) Bernoulli's Principle
 - b) Pascal's Law
 - c) Archimedes' Principle
 - d) Newton's Law of Viscosity

Chemistry (16 Questions)

18. **The pH of a neutral solution at 25°C is:**
- a) 0
 - b) 7
 - c) 10
 - d) 14
19. **The chemical formula of washing soda is:**
- a) NaHCO_3
 - b) NaOH
 - c) $\text{Na}_2\text{CO}_3 \cdot 10\text{H}_2\text{O}$
 - d) CaOCl_2
20. **Which of the following is a noble gas?**
- a) Hydrogen
 - b) Oxygen
 - c) Neon
 - d) Nitrogen
21. **The process of rusting of iron is an example of:**
- a) Combustion
 - b) Reduction
 - c) Oxidation
 - d) Displacement
22. **The hardest naturally occurring substance is:**
- a) Gold
 - b) Iron
 - c) Diamond
 - d) Platinum
23. **The gas used in the advertisement signboards (neon signs) is:**
- a) Helium
 - b) Argon
 - c) Neon
 - d) Krypton
24. **Which of the following is an example of a thermoplastic?**
- a) Bakelite
 - b) Melamine
 - c) Polythene
 - d) Teflon
25. **The isotope of Uranium used as fuel in a nuclear reactor is:**
- a) U-234
 - b) U-235
 - c) U-238
 - d) U-239
26. **The acid present in vinegar is:**
- a) Acetic Acid
 - b) Citric Acid
 - c) Lactic Acid
 - d) Formic Acid
27. **The most abundant gas in the Earth's atmosphere is:**
- a) Oxygen
 - b) Argon
 - c) Nitrogen
 - d) Carbon Dioxide
28. **Which of the following is NOT a property of acids?**
- a) Sour taste
 - b) Turn blue litmus red
 - c) Liberate hydrogen gas with metals
 - d) Feel soapy to touch
29. **The chemical name of 'Plaster of Paris' is:**
- a) Calcium Sulphate Hemihydrate
 - b) Calcium Carbonate
 - c) Calcium Oxide
 - d) Calcium Sulphate Dihydrate
30. **Covalent bonds are formed by:**
- a) Transfer of electrons
 - b) Sharing of electrons
 - c) Donation of protons
 - d) Sharing of protons
31. **The process used to purify seawater is:**
- a) Filtration
 - b) Distillation
 - c) Sedimentation
 - d) Chlorination
32. **Which gas is responsible for the 'greenhouse effect'?**
- a) Oxygen

- b) Nitrogen
- c) Carbon Dioxide
- d) Ozone

33. **The element common to all acids is:**

- a) Hydrogen
- b) Oxygen
- c) Nitrogen
- d) Chlorine

Biology (17 Questions)

34. **The cell organelle responsible for cellular respiration is:**

- a) Nucleus
- b) Ribosome
- c) Mitochondria
- d) Chloroplast

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

- a) Lactobacillus
- b) Rhizobium
- c) Yeast
- d) E. coli

36. **The process by which plants lose water in the form of vapour is called:**

- a) Evaporation
- b) Transpiration
- c) Respiration
- d) Photosynthesis

37. **The smallest bone in the human body is found in the:**

- a) Spine
- b) Ear
- c) Finger
- d) Toe

38. **Which vitamin is produced in the human body when exposed to sunlight?**

- a) Vitamin A
- b) Vitamin B12
- c) Vitamin C
- d) Vitamin D

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

- a) Haemoglobin
- b) Plasma
- c) Platelets
- d) Lymph

40. **The botanical name for the 'Neem' tree is:**

- a) Azadirachta indica
- b) Ocimum sanctum

- c) Ficus religiosa
- d) Moringa oleifera

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

- a) Stomach
- b) Liver
- c) Kidney
- d) Small Intestine

42. **The universal recipient blood group is:**

- a) A
- b) B
- c) AB
- d) O

43. **Plants receive their nutrients mainly from:**

- a) Chlorophyll
- b) Atmosphere
- c) Light
- d) Soil

44. **The hormone insulin is secreted by:**

- a) Pituitary Gland
- b) Thyroid Gland
- c) Pancreas
- d) Adrenal Gland

45. **Which of the following diseases is caused by a virus?**

- a) Tuberculosis
- b) Cholera
- c) Malaria
- d) COVID-19

46. **The structural and functional unit of the nervous system is:**

- a) Nephron
- b) Neuron
- c) Brain
- d) Spinal Cord

47. **The process of conversion of sugar into alcohol by yeast is called:**

- a) Fermentation
- b) Pasteurization
- c) Digestion
- d) Respiration

48. **Biodiversity is maximum in:**

- a) Tropical Rainforests
- b) Temperate Forests
- c) Deserts
- d) Tundra Regions

49. **The 'Project Tiger' initiative in India was launched in which year?**

- a) 1973

- b) 1984
c) 1991
d) 2002
50. Which of the following is a water-borne disease?
a) Tuberculosis
b) Influenza
c) Cholera
d) Tetanus

Answer Key

1. a) Candela
2. c) A parabola
3. b) Law of Inertia
4. b) Centrifugal force
5. d) Work
6. c) Dispersion
7. c) The gravitational force of the Earth provides the necessary centripetal force.
8. d) Vacuum
9. b) Concave Lens
10. b) Poles
11. d) Nitrogen (N₂)
12. c) Boiling
13. c) Convex Mirror
14. b) Pressurized Heavy Water Reactor (PHWR)
15. a) Echo
16. b) Break the circuit in case of overloading
17. b) Pascal's Law
18. b) 7
19. c) Na₂CO₃·10H₂O
20. c) Neon
21. c) Oxidation
22. c) Diamond
23. c) Neon
24. c) Polythene
25. b) U-235
26. a) Acetic Acid
27. c) Nitrogen
28. d) Feel soapy to touch
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47. a) Fermentation
48. a) Tropical Rainforests
49. a) 1973
50. c) Cholera