

EVERYDAY SCIENCE

100 Solved MCQs with Highlighted Answers

100

Questions

90 min

Duration

Hard

Difficulty

100

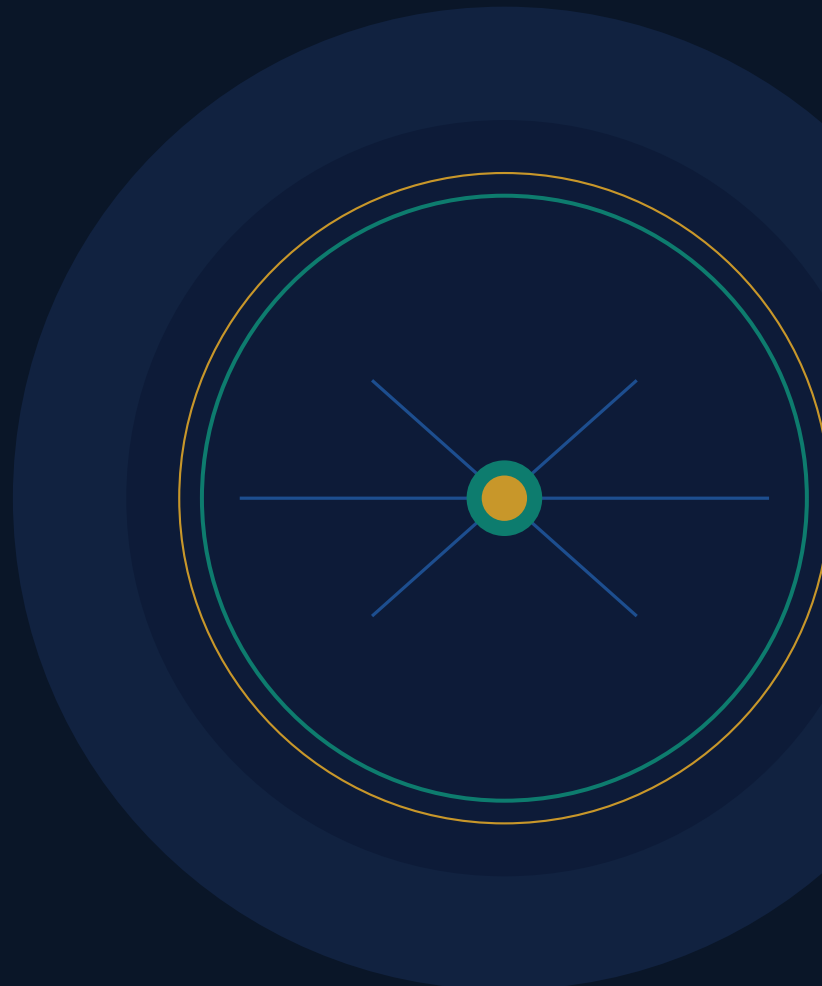
Total Marks

Topics: Physics | Chemistry | Biology | Astronomy | Earth Science

Human Body | Technology | Environment | Health & Nutrition

HARD & TOUGH LEVEL

Suitable for: FPSC | CSS | PMS | NTS | PPSC | SPSC



Correct Answers Highlighted in Green - Answer Key Included

Generated: 24 June 2026

INSTRUCTIONS FOR CANDIDATES

1. This paper contains **100 Multiple Choice Questions (MCQs)** covering ten branches of Everyday Science.
2. Each question carries **1 mark**. The total marks for this paper are **100**.
3. Select **only ONE answer** for each question. Multiple responses will be treated as incorrect.
4. **Correct answers are highlighted in green** and marked with a check mark (/) for instant identification.
5. There is **no negative marking**. Attempt all questions confidently.
6. Recommended time allowed: **90 minutes**. Manage your time carefully.
7. This paper is designed for **FPSC, CSS, PMS, NTS, PPSC** and **SPSC** level competitive examinations.

TOPIC	QUESTION RANGE	MARKS
Physics	Q 1 – 10	10
Chemistry	Q 11 – 20	10
Biology	Q 21 – 30	10
Astronomy	Q 31 – 40	10
Earth Science	Q 41 – 50	10
Human Body	Q 51 – 60	10
Technology	Q 61 – 70	10
Environment	Q 71 – 80	10
General Science	Q 81 – 90	10
Health & Nutrition	Q 91 – 100	10

PHYSICS

Q 1 – 10

Q01. Which phenomenon causes the sky to appear blue during the daytime?

A. Reflection of sunlight off clouds

/ B. Rayleigh scattering by atmospheric molecules

C. Refraction of light by the atmosphere

D. Absorption of red light by ozone

Q02. The speed of light in a vacuum is approximately:A. 3×10^6 m/s**/ B. 3×10^8 m/s**C. 3×10^{10} m/sD. 3×10^4 m/s**Q03.** Which electromagnetic radiation carries the highest energy per photon?

A. Radio waves

B. Infrared rays

C. Ultraviolet rays

/ D. Gamma rays**Q04.** The SI unit of electric charge is the:

A. Ampere

B. Volt

/ C. Coulomb

D. Farad

Q05. Direct conversion of a solid into vapour without passing through the liquid state is called:

A. Evaporation

B. Vaporization

/ C. Sublimation

D. Condensation

Q06. A hydraulic press operates on the principle of:

- A. Archimedes' principle
- B. Bernoulli's principle
- / C. Pascal's principle**
- D. Newton's third law

Q07. Which colour of visible light has the longest wavelength?

- A. Violet
- B. Blue
- C. Yellow

/ D. Red

Q08. A body undergoing simple harmonic motion has its maximum kinetic energy at:

- A. Extreme positions only
- / B. The mean (equilibrium) position**
- C. Halfway between mean and extreme
- D. All positions equally

Q09. The SI unit of radioactivity is the:

- A. Roentgen
- B. Curie
- C. Gray

/ D. Becquerel

Q10. Which type of mirror is used as a rear-view mirror in vehicles?

- A. Plane mirror
- B. Concave mirror
- / C. Convex mirror**
- D. Parabolic mirror

Q11. The chemical formula of laughing gas is:

A. NO

/ B. N_2O

C. NO_2

D. N_2O_5

Q12. The pH value of a perfectly neutral solution at 25 degrees C is:

A. 0

B. 5

/ C. 7

D. 14

Q13. Which element has the highest electronegativity on the Pauling scale?

A. Oxygen

B. Nitrogen

C. Chlorine

/ D. Fluorine

Q14. Rusting of iron is primarily a process of:

A. Reduction

/ B. Oxidation

C. Neutralization

D. Decomposition

Q15. The hardest naturally occurring substance on Earth is:

A. Quartz

B. Corundum

/ C. Diamond

D. Graphite

Q16. Which acid is present in vinegar?

- A. Citric acid
- B. Tartaric acid
- / C. Acetic acid**
- D. Lactic acid

Q17. The ozone layer primarily absorbs which type of solar radiation?

- A. Infrared radiation
- / B. Ultraviolet radiation**
- C. X-rays
- D. Visible light

Q18. The atomic number of an element is determined by the number of:

- A. Neutrons
- B. Electrons in outer shell
- / C. Protons in the nucleus**
- D. Nucleons

Q19. When sodium reacts with water, which gas is released?

- A. Oxygen
- B. Nitrogen
- / C. Hydrogen**
- D. Carbon dioxide

Q20. Which gas is primarily responsible for the enhanced greenhouse effect?

- A. Oxygen
- B. Nitrogen
- / C. Carbon dioxide**
- D. Argon

BIOLOGY

Q 21 – 30

Q21. Which organelle is called the 'powerhouse of the cell'?

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

Q22. The process by which plants manufacture food using sunlight is:

- A. Respiration
- B. Transpiration
- / C. Photosynthesis**
- D. Fermentation

Q23. Which blood group is the universal donor?

- A. A
- B. B
- C. AB
- / D. O negative**

Q24. DNA stands for:

- A. Dioxyribonucleic Acid
- / B. Deoxyribonucleic Acid**
- C. Dinitric Nucleic Acid
- D. Deoxyribose Nuclei Acid

Q25. How many chambers does the adult human heart contain?

- A. 2
- B. 3
- / C. 4**
- D. 5

Q26. Which vitamin is synthesised in the human skin upon exposure to sunlight?

- A. Vitamin A
- B. Vitamin B12
- C. Vitamin C

/ D. Vitamin D

Q27. The functional unit of the kidney is called the:

- A. Alveolus
- / B. Nephron**
- C. Neuron
- D. Lobule

Q28. Which part of the brain controls balance and muscular coordination?

- A. Cerebrum
- B. Medulla oblongata

/ C. Cerebellum

- D. Hypothalamus

Q29. Malaria in humans is caused by a:

- A. Virus
- B. Bacterium

/ C. Protozoan (Plasmodium)

- D. Fungus

Q30. The genetic message is transported from the nucleus to ribosomes by:

- A. tRNA
- B. rRNA

/ C. mRNA

- D. DNA polymerase

Q31. Which is the largest planet in our solar system?

- A. Saturn
- B. Uranus
- C. Neptune

/ D. Jupiter

Q32. Light from the Sun takes approximately how long to reach Earth?

- A. 1 second
- / B. 8 minutes**
- C. 1 hour
- D. 24 hours

Q33. The Milky Way galaxy is classified as which type of galaxy?

- A. Elliptical
- B. Irregular
- / C. Barred spiral**
- D. Lenticular

Q34. A light year is defined as:

- A. Time for light to orbit the Earth
- / B. Distance light travels in one year**
- C. Brightness unit of a star
- D. Age of a star in solar units

Q35. The outermost layer of the Sun's atmosphere is called the:

- A. Photosphere
- B. Chromosphere
- / C. Corona**
- D. Convection zone

Q36. Which moon of Jupiter is thought to have a liquid ocean beneath its icy crust?

- A. Io
- B. Ganymede
- / C. Europa**
- D. Callisto

Q37. A rotating neutron star that emits regular pulses of radio waves is known as a:

- A. Quasar
- B. Magnetar
- / C. Pulsar**
- D. Black dwarf

Q38. Earth's axis is tilted at approximately:

- A. 0 degrees
- / B. 23.5 degrees**
- C. 45 degrees
- D. 66.5 degrees

Q39. Pluto was reclassified from a planet to a dwarf planet in the year:

- A. 1999
- B. 2003
- / C. 2006**
- D. 2010

Q40. The phenomenon where the Moon moves into Earth's shadow is called a:

- A. Solar eclipse
- / B. Lunar eclipse**
- C. Transit
- D. Occultation

Q41. The most abundant gas in Earth's atmosphere is:

- A. Oxygen
- B. Argon
- C. Carbon dioxide

/ D. Nitrogen

Q42. The point on Earth's surface directly above an earthquake's focus is the:

/ A. Epicentre

- B. Hypocentre
- C. Fault line
- D. Seismic node

Q43. Which layer of the Earth is in a liquid state?

- A. Inner core

/ B. Outer core

- C. Lower mantle
- D. Crust

Q44. Approximately what percentage of Earth's surface is covered by water?

- A. 51%
- B. 61%

/ C. 71%

- D. 81%

Q45. Igneous rocks are formed from:

- A. Compressed sediments
- B. Metamorphosed limestone

/ C. Cooled magma or lava

- D. Crystallised minerals in sea water

Q46. The Richter scale is used to measure the magnitude of:

- A. Volcanic eruptions
- B. Hurricanes
- / C. Earthquakes**
- D. Tsunamis

Q47. Radiocarbon dating is used to determine the age of:

- A. Rocks and minerals
- B. Living organisms
- / C. Once-living organic material**
- D. Glacial ice

Q48. The Pacific Ocean is:

- A. Smallest ocean
- B. Second largest ocean
- C. Third largest ocean
- / D. Largest ocean on Earth**

Q49. The warm ocean current in the Pacific that disrupts global weather is called:

- A. La Nina
- / B. El Nino**
- C. Gulf Stream
- D. Kuroshio Current

Q50. Which scale is used to classify the hardness of minerals?

- A. Beaufort scale
- B. Richter scale
- / C. Mohs scale**
- D. Kelvin scale

Q51. The largest organ of the human body by surface area is:

- A. Liver
- B. Lungs
- / C. Skin**
- D. Brain

Q52. Normal human core body temperature in Celsius is approximately:

- A. 35 degrees C
- / B. 37 degrees C**
- C. 39 degrees C
- D. 41 degrees C

Q53. How many bones are present in a healthy adult human body?

- A. 186
- B. 196
- / C. 206**
- D. 216

Q54. Salivary amylase begins the digestion of which nutrient in the mouth?

- A. Proteins
- B. Fats
- / C. Starch (carbohydrates)**
- D. Vitamins

Q55. The 'master gland' of the endocrine system is the:

- A. Thyroid gland
- B. Adrenal gland
- / C. Pituitary gland**
- D. Pancreas

Q56. Red blood cells (erythrocytes) are produced in the:

- A. Lymph nodes
- B. Spleen
- C. Liver

/ D. Red bone marrow

Q57. The longest and strongest bone in the human body is the:

- A. Tibia

/ B. Femur

- C. Humerus
- D. Radius

Q58. The iris of the eye controls:

- A. Image focusing
- B. Light sensitivity

/ C. Amount of light entering the eye

- D. Colour perception

Q59. The normal hearing frequency range of a healthy human ear is approximately:

- A. 2 Hz to 2 kHz

/ B. 20 Hz to 20 kHz

- C. 200 Hz to 200 kHz
- D. 2 kHz to 20 kHz

Q60. Which mineral is essential for the synthesis of haemoglobin?

- A. Calcium
- B. Zinc

/ C. Iron

- D. Potassium

TECHNOLOGY

Q 61 – 70

Q61. The World Wide Web (WWW) was invented by:

- A. Bill Gates
- B. Steve Jobs
- / C. Tim Berners-Lee**
- D. Vint Cerf

Q62. In computing, one byte equals how many bits?

- A. 4
- / B. 8**
- C. 16
- D. 32

Q63. LASER stands for:

- / A. Light Amplification by Stimulated Emission of Radiation**
- B. Light Absorption by Selective Emitting Rays
- C. Luminous Array of Selective Emission Rays
- D. Light Amplification by Selective Electromagnetic Radiation

Q64. Atmospheric pressure is measured using a:

- A. Hygrometer
- B. Thermometer
- / C. Barometer**
- D. Anemometer

Q65. Optical fibres transmit data using the principle of:

- A. Diffraction of light
- B. Polarisation of light
- / C. Total internal reflection**
- D. Scattering of light

Q66. MRI in medical imaging stands for:

- A. Magnetic Radiation Imaging
- / B. Magnetic Resonance Imaging**
- C. Medical Radiological Imaging
- D. Molecular Radiation Imaging

Q67. GPS technology requires signals from a minimum of how many satellites?

- A. 2
- B. 3
- / C. 4**
- D. 6

Q68. Airport security body scanners use which type of radiation?

- A. Gamma rays
- / B. X-rays**
- C. Ultraviolet rays
- D. Infrared rays

Q69. Inert gases are filled in electric light bulbs primarily to:

- A. Produce more light
- / B. Prevent filament oxidation**
- C. Reduce electricity consumption
- D. Cool the bulb

Q70. Which storage medium uses magnetic principles to store data?

- A. Compact disc (CD)
- B. Solid-state drive (SSD)
- / C. Hard disk drive (HDD)**
- D. Flash drive

ENVIRONMENT

Q 71 – 80

Q71. The Montreal Protocol was designed to protect the:

A. Amazon rainforest

/ B. Ozone layer

C. Arctic ice sheet

D. Coral reefs

Q72. Acid rain is primarily caused by emissions of:

A. CO₂ and methane

/ B. SO₂ and nitrogen oxides

C. Ozone and CO

D. CFCs and HFCs

Q73. Energy generated from the internal heat of the Earth is called:

A. Solar energy

B. Tidal energy

/ C. Geothermal energy

D. Wind energy

Q74. A food chain always begins with:

A. Carnivores

B. Herbivores

/ C. Producers (green plants)

D. Decomposers

Q75. The term 'eutrophication' refers to excessive nutrient enrichment of:

A. Soil

/ B. Water bodies

C. Air

D. Forest floor

Q76. Which biogeochemical cycle is most disrupted by large-scale deforestation?

- A. Nitrogen cycle
- B. Phosphorus cycle
- / C. Carbon cycle**
- D. Sulphur cycle

Q77. Among common greenhouse gases, which has the highest global warming potential?

- A. Carbon dioxide (CO₂)
- B. Methane (CH₄)
- C. Nitrous oxide (N₂O)

/ D. Sulphur hexafluoride (SF₆)

Q78. Biodiversity refers to the:

- A. Variety of habitats in one region

/ B. Variety of life forms within an ecosystem

- C. Rate of species extinction
- D. Carbon content of ecosystems

Q79. Compost is produced through the process of:

- A. Photosynthesis

/ B. Biological decomposition

- C. Combustion
- D. Chemical synthesis

Q80. The primary source of energy for virtually all life on Earth is:

- A. Chemical energy
- B. Nuclear energy

/ C. Solar (sun) energy

- D. Geothermal energy

Q81. The science of heredity and variation in living organisms is called:

- A. Cytology
- B. Ecology
- / C. Genetics**
- D. Morphology

Q82. Sound waves cannot travel through:

- A. Water
- B. Steel
- / C. Vacuum**
- D. Air

Q83. The law of universal gravitation was formulated by:

- A. Albert Einstein
- B. Galileo Galilei
- / C. Isaac Newton**
- D. Nikola Tesla

Q84. The chemical name of common table salt is:

- A. Sodium carbonate
- / B. Sodium chloride**
- C. Sodium bicarbonate
- D. Sodium sulphate

Q85. A concave lens is used to correct which vision defect?

- A. Hypermetropia (long-sightedness)
- B. Astigmatism
- C. Presbyopia
- / D. Myopia (short-sightedness)**

Q86. The branch of science that studies organisms and their environments is:

A. Genetics

/ B. Ecology

C. Physiology

D. Taxonomy

Q87. The hormone produced by the pancreas that lowers blood glucose is:

A. Adrenaline

B. Thyroxine

/ C. Insulin

D. Glucagon

Q88. Which element is used as a control rod material in nuclear reactors?

A. Uranium

B. Plutonium

/ C. Boron (or cadmium)

D. Graphite

Q89. A star that has collapsed into an infinitely dense gravitational singularity is called a:

A. Pulsar

B. Quasar

C. Neutron star

/ D. Black hole

Q90. Ultrasound waves used in medical imaging have frequencies above:

A. 2 kHz

/ B. 20 kHz

C. 200 kHz

D. 2 MHz

Q91. Vitamin C deficiency causes which disease?

- A. Rickets
- B. Beriberi
- / C. Scurvy**
- D. Pellagra

Q92. Iodine deficiency in the diet leads to enlargement of the thyroid gland, known as:

- A. Rickets
- B. Anaemia
- / C. Goitre**
- D. Kwashiorkor

Q93. BMI (Body Mass Index) is calculated as:

- A. $\text{Weight(kg)} / \text{Height(m)}$
- / B. $\text{Weight(kg)} / \text{Height(m)}^2$**
- C. $\text{Height(m)} / \text{Weight(kg)}$
- D. $\text{Weight(lb)} \times \text{Height(ft)}$

Q94. Which of the following vitamins is fat-soluble?

- A. Vitamin C
- B. Vitamin B12
- / C. Vitamin K**
- D. Vitamin B6

Q95. Antibiotics are effective ONLY against infections caused by:

- A. Viruses
- / B. Bacteria**
- C. Fungi
- D. Prions

Q96. Which macronutrient provides the greatest energy per gram?

- A. Carbohydrates (4 kcal/g)
- B. Proteins (4 kcal/g)
- / C. Fats (9 kcal/g)**
- D. Fibre (2 kcal/g)

Q97. Pasteurisation of milk is performed by heating it to about 72 degrees C for:

- A. 5 seconds
- / B. 15 seconds**
- C. 1 minute
- D. 5 minutes

Q98. Essential amino acids are so called because the human body:

- A. Uses them as the main energy source
- / B. Cannot synthesise them and must obtain them from diet**
- C. Needs them only during illness
- D. Stores them in large quantities

Q99. The Heimlich manoeuvre is an emergency procedure used to treat:

- A. Heart attack
- / B. Choking on a foreign object**
- C. Stroke
- D. Asthma attack

Q100. Which disease is caused by a deficiency of Vitamin D and results in soft, weak bones?

- A. Scurvy
- B. Anaemia
- / C. Rickets**
- D. Osteoporosis

QUICK ANSWER KEY

Q	ANS	Q	ANS	Q	ANS	Q	ANS	Q	ANS
1	B	21	C	41	D	61	C	81	C
2	B	22	C	42	A	62	B	82	C
3	D	23	D	43	B	63	A	83	C
4	C	24	B	44	C	64	C	84	B
5	C	25	C	45	C	65	C	85	D
6	C	26	D	46	C	66	B	86	B
7	D	27	B	47	C	67	C	87	C
8	B	28	C	48	D	68	B	88	C
9	D	29	C	49	B	69	B	89	D
10	C	30	C	50	C	70	C	90	B
11	B	31	D	51	C	71	B	91	C
12	C	32	B	52	B	72	B	92	C
13	D	33	C	53	C	73	C	93	B
14	B	34	B	54	C	74	C	94	C
15	C	35	C	55	C	75	B	95	B
16	C	36	C	56	D	76	C	96	C
17	B	37	C	57	B	77	D	97	B
18	C	38	B	58	C	78	B	98	B
19	C	39	C	59	B	79	B	99	B
20	C	40	B	60	C	80	C	100	C