Class-7th Science

NACT Science Practice Set (100 Questions with Answers)

1 Logical Reasoning (25 Questions)

Q1. Which number comes next in the series? 2, 6, 12, 20, 30, ___

A) 42 B) 36 C) 40 D) 44

Ans: A) 42

Q2. If 'WATER' is coded as 'XZVHU', then 'EARTH' is coded as:

A) FCUIK B) FBSUI C) FZSIK D) FCVUI

Ans: A) FCUIK

Q3. A clock shows 3:15. What is the angle between the hour and minute hands?

A) 0° B) 7.5° C) 30° D) 45°

Ans: B) 7.5°

Q4. Find the odd one out: Heart, Liver, Kidney, Bone

A) Heart B) Liver C) Kidney D) Bone

✓ Ans: D) Bone

Q5. If 5 pencils cost ₹30, how many pencils can be bought for ₹90?

A) 10 B) 15 C) 20 D) 25

Ans: B) 15

Q6. Which shape will complete the pattern?

A) Triangle B) Circle C) Square D) Pentagon

Ans: A) Triangle

Q7. Raju is older than Rani. Rani is younger than Meena. Who is the oldest?

A) Raju B) Rani C) Meena D) Cannot say

Ans: C) Meena

Q8. In a certain code, LION = 12-9-15-14. What is code for TIGER?

A) 20-9-7-5-18 B) 19-9-7-5-18 C) 20-10-6-5-

18 D) 21-9-7-5-18

Ans: A) 20-9-7-5-18

Q9. Complete the analogy: Tree : Leaf :: Flower : ?

A) Stem B) Petal C) Root D) Fruit

Ans: B) Petal

Q10. If NORTH is coded as SQRUI, then SOUTH is coded as:

A) VRXUI B) VRXWI C) VQXUI D) VQXWI

Ans: A) VRXUI

Q11. Which number is odd in the series: 11, 13, 15, 17, 18, 19

A) 13 B) 15 C) 18 D) 19

✓ Ans: C) 18

Q12. Find the missing term: 1, 4, 9, 16, ?

A) 20 B) 24 C) 25 D) 36

✓ Ans: C) 25

Q13. If CAT = 3120, BAT = 2120, then RAT = ?

A) 1820 B) 1821 C) 2820 D) 1822

✓ Ans: A) 1820

Q14. Wh<mark>ich figure is different? Circle, Sphere, Cube, Rectangle</mark>

Ans: Cube

Q15. Aman is taller than Ravi but shorter than Suresh. Who is the tallest?

A) Aman B) Ravi C) Suresh D) Cannot say

Ans: C) Suresh

Q16. If TABLE is coded as UBCMF, then CHAIR is coded as:

A) DIBJS B) DBHJS C) DIBKR D) DIBIR

Ans: A) DIBJS

Q17. What comes next in the series? 2, 4, 8, 16,

A) 20 B) 24 C) 32 D) 36

✓ Ans: C) 32

Q18. Odd one out: Mercury, Mars, Earth, Venus

Ans: Mercury

Q19. Arrange in order of size: Atom, Cell, Organ, Tissue

Ans: Atom < Cell < Tissue < Organ</p>

Q20. Which number replaces ? \rightarrow 7, 14, ___, 56, 112

A) 18 B) 21 C) 28 D) 35

Ans: C) 28

Q21. Find the mirror image of "L".

Ans: J

Q22. Which is the shortest? Giraffe, Elephant, Cat, Horse

Ans: Cat

Q23. Which one is odd: Dog, Cat, Tiger, Car

Ans: Car

Q24. How many 90° angles are in a rectangle?

A) 1 B) 2 C) 3 D) 4

Ans: D) 4

Q25. If Monday = 1st, what day is the 15th?

A) Tuesday B) Wednesday C) Thursday D)

Friday

Ans: C) Thursday

2 Science Concepts (25 Questions)

(Your 15 questions reused + 10 new ones)

Q26. Which organelle is the powerhouse of the cell?

Ans: Mitochondria

Q27. Chemical formula of water?

🗸 Ans: H2O

Q28. Which is renewable?

Ans: Wind

Q29. Gas used in photosynthesis?

Ans: Carbon dioxide

Q30. SI unit of force?

Ans: Newton

Q31. Brain part for voluntary actions?

Ans: Cerebrum

Q32. Acid turns blue litmus?

Ans: Red

Q33. Motion of pendulum?

Ans: Oscillatory

Q34. Physical change example?

Ans: Melting of ice

Q35. Vitamin formed in sunlight?

Ans: D

Q36. Organ for excretion?

Ans: Kidney

Q37. Speed of light?

✓ Ans: 3 × 10⁸ m/s

Q38. Non-conductor?

✓ Ans: Plastic

Q39. Chemical change?

Ans: Baking a cake

Q40. Iron in moist air?

✓ Ans: Rusts

Q41. Unit of electric current?

A) Ampere B) Ohm C) Volt D) Watt

Ans: A) Ampere

Q42. Gas needed for respiration?

Ans: Oxygen

Q43. Which organ pumps blood?

Ans: Heart

Q44. Device to measure temperature?

✓ Ans: Thermometer

Q45. Smallest bone in human body?

Ans: Stapes (ear bone)

Q46. Earth's natural satellite?

Ans: Moon

Q47. Liquid part of blood? Ans: Plasma Q48. Which planet is red? Ans: Mars **Q49.** Lens of human eye is? Ans: Convex Q50. Number of chromosomes in humans? Ans: 46 Everyday Science (25 Questions) (Your 15 questions reused + 10 new ones) **Q51.** Why woolen clothes in winter? Ans: Trap air Q52. Salt dissolved in water forms? Ans: Solution **Q53.** Why copper wires? Ans: Conduct well **Q54.** Separation of sand from water? Ans: Filtration Q55. Function of WBCs? Ans: Fight infections Q56. Metals feel colder in winter because? Ans: Conduct heat faster Q57. Plant part for reproduction? Ans: Flower Q58. Wet hands on electricity are dangerous because? Ans: Water conducts electricity **Q59.** Which is biodegradable? Ans: Banana peel **Q60.** Water cycle does NOT include? Ans: Photosynthesis

Q61. Foggy windows cause? Ans: Condensation Q62. Food preservation is for? Ans: Store for long **Q63.** Why traffic signals are red? Ans: Visible from far **Q64.** Tooth decay cause? Ans: Germs Q65. Air we breathe has more? Ans: Nitrogen Q66. Why do we sweat? Ans: To cool body Q67. Why do farmers plough soil? Ans: Mix air and nutrients **Q68.** Why do ships float? Ans: Buoyancy **Q69.** Why do we eat green vegetables? Ans: Rich in vitamins/minerals Q70. Which energy runs a fan? Ans: Electrical Q71. Why do bulbs glow? Ans: Filament gets hot Q72. Solar panels work on which energy? Ans: Solar Q73. Why do we use helmets? Ans: Protect head Q74. Why is salt added in pickles?

Ans: Preservation

Q75. Why do we drink boiled water?

Ans: Kill germs

Achievers Section (HOTS) (25 Questions)

(Your 10 questions reused + 15 new ones)

Q76. Ball thrown up converts kinetic to?

Ans: Potential

Q77. Balloon bursts with needle because?

Ans: Elastic limit breaks

Q78. Tree bends in wind shows?

Ans: Flexibility

Q79. Bubbles in boiling water contain?

Ans: Water vapor

Q80. Why do astronauts wear space suits?

Ans: To breathe & stay safe

Q81. Iron floats on mercury because?

Ans: Mercury is denser

Q82. Plant bends to light due to?

Ans: Phototropism

Q83. Pressure cooker cooks fast because?

Ans: Steam under pressure

Q84. Satellites stay in orbit because?

Ans: Speed & gravity balance

Q85. Microwaves cook food because?

Ans: Penetrate & heat inside

Q86. Why rainbow forms?

Ans: Refraction & reflection of light

Q87. Why does ice float on water?

Ans: Lower density

Q88. Why does sound not travel in space?

🗸 Ans: No medium 🥌

Q89. Why are desert animals nocturnal?

Ans: Avoid heat

Q90. Why do camels have humps?

Ans: Store fat

Q91. Why does iron expand on heating?

Ans: Increase in kinetic energy

Q92. Why do stars twinkle?

Ans: Atmospheric refraction

Q93. Why are solar cookers painted black?

Ans: Absorb heat

Q94. Why do fish breathe with gills?

Ans: Extract oxygen from water

Q95. Why does a glass crack when hot water is

poured?

Ans: Uneven expansion

Q96. Why do we see lightning before thunder?

Ans: Light is faster than sound

Q97. Why does a ball bounce?

Ans: Elasticity

Q98. Why does moon have no atmosphere?

Ans: Low gravity

Q99. Why does an ice cube melt faster in cola

than water?

Ans: Cola absorbs heat faster

Q100. Why do astronauts appear weightless?

Ans: Free fall condition

CE EXAM