## Class-8<sup>th</sup> Science

NACT Science Practice Set (100 Questions with Answers)

Section 1: Logical Reasoning (25 Questions)

**Q1.** What will be the next number in the series: 2, 6, 12, 20, 30, \_\_\_\_?

a) 42 b) 36 c) 44 d) 46

**Answer:** a) 42

**Q2.** If A = 1, B = 2, ..., Z = 26, what is the sum of the word "ATOM"?

a) 56 b) 46 c) 45 d) 48

**✓** Answer: c) 45

Q3. Choose the odd one out: Mercury, Venus, Mars, Earth

a) Mercury b) Venus c) Mars d) Earth

Answer: a) Mercury (It is not a habitable planet)

Q4. Find the missing figure: \_\_\_\_, \_\_\_\_,

igure: 📒 , 📕 , 📙 , ?, 📘

a) b) c) d) d) • Answer: a)

**Q5.** If all apples are fruits and some fruits are sweet, can we conclude that all apples are sweet?

a) Yes b) No c) Can't say d) Maybe

Answer: c) Can't say

**Q6.** Arrange the words in logical order:

1. Plant 2. Seed 3. Fruit 4. Tree a) 2,1,4,3 b) 1,2,3,4 c) 2,1,3,4 d) 1,4,2,3

✓ Answer: a) 2,1,4,3

**Q7.** If CLOCK = DMPDL, then TIME = ? a) UJNF b) VJNF c) UJOG d) UJME

Answer: a) UJNF

**Q8.** Which number will replace the question mark? 3:9::4:?

a) 12 b) 16 c) 14 d) 10

Answer: b) 16

**Q9.** What comes next in the pattern:  $\triangle$ ,  $\bigcirc$ ,  $\triangle$ ,  $\bigcirc$ , ?

a) ○ b) △ c) □ d) ❖

✓ Answer: b) △

**Q10.** If 5 pencils cost ₹20, how many pencils can you buy for ₹100?

a) 20 b) 25 c) 15 d) 30

**✓** Answer: b) 25

Q11. Which number completes the series: 1, 4, 9, 16, \_\_?

a) 20 b) 25 c) 30 d) 24

Answer: b) 25

**Q12.** Odd one out: Circle, Sphere, Cube, Cylinder

Answer: Circle

Q13. If CAT = 3120, BAT = 2120, then RAT = ? a) 1820 b) 1821 c) 2820 d) 1822

Answer: a) 1820

**Q14.** Which letter comes next? A, D, G, J, \_\_\_\_

a) K b) M c) N d) L

Answer: b) M

**Q15.** Find the odd one out: 121, 144, 169, 225

Answer: 225 (Not a perfect square)

**Q16.** What comes next: 2, 4, 8, 16, \_\_\_

a) 20 b) 24 c) 32 d) 30

Answer: c) 32

**Q17.** Which word cannot be formed using letters of "MATHEMATICS"?

a) MATH b) TEACH c) THEM d) ACTS

✓ Answer: b) TEACH

**Q18.** If MONDAY is coded as NPOEBZ, then FRIDAY is coded as?

Answer: GSJEBZ

**Q19.** Arrange in increasing size: Atom, Cell, Organ, Tissue

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

**Q20.** Which is the odd one? Dog, Cat, Tiger, Car Answer: Car

**Q21.** A clock shows 3:15. Angle between hands? a) 0° b) 7.5° c) 30° d) 45°

Answer: b) 7.5°

**Q22.** Which figure is different? Circle, Square,

Rectangle, Sphere

Answer: Sphere

**Q23.** If 2 = 4, 3 = 9, 4 = 16, then 5 = ?

Answer: 25

Q24. Odd one: Heart, Liver, Kidney, Bone

Answer: Bone

Q25. If MONDAY is 1st day, what day is 15th?

Answer: Tuesday

Section 2: Science Concept (35 Questions)

**Q26.** Which organelle is known as the powerhouse of the cell?

Answer: Mitochondria

**Q27.** Which gas is necessary for photosynthesis?

Answer: Carbon dioxide

**Q28.** Boiling point of water?

Answer: 100°C

**Q29.** Which is a physical change?

Answer: Melting ice

**Q30.** Non-renewable resource?

Answer: Coal

Q31. Which planet has most moons?

Answer: Jupiter

Q32. Exchange of gases occurs in:

Answer: Alveoli

Q33. Unit of electric current?

Answer: Ampere

Q34. What causes tides?

Answer: Moon's gravity

Q35. Vitamin made in skin by sunlight?

Answer: D

Q36. Which is a chemical reaction?

Answer: Burning wood

Q37. Function of large intestine?

Answer: Absorb water

Q38. Metals are generally:

Answer: Good conductors

**Q39.** Protective layer from UV rays?

Answer: Ozone layer

Q40. Basic unit of heredity?

**✓** Answer: Gene

**Q41.** Conductor of electricity?

Answer: Copper

Q42. Plants lose water through?

Answer: Transpiration

**Q43.** Formula of water?

✓ Answer: H<sub>2</sub>O

Q44. Magnet always has?

Answer: Two poles

Q45. Earth revolves around Sun in?

Answer: 365 days

Q46. Which blood cells fight infection?

Answer: White blood cells

Q47. SI unit of force?

Answer: Newton

Q48. Who discovered gravity?

Answer: Isaac Newton

Q49. Which part of brain controls balance?

Answer: Cerebellum

**Q50.** Acid present in lemon?

Answer: Citric acid

**Q51.** Blood flows from heart to body via? **Q66.** Why ice melts faster on metal tray? Answer: Arteries Answer: Metal conducts heat **Q52.** First element in Periodic Table? **Q67.** Device to measure temperature? Answer: Hydrogen Answer: Thermometer Q53. Which part of plant makes food? **Q68.** Which helps digestion in stomach? Answer: Leaf Answer: Hydrochloric acid **Q54.** Which gas is used in fire extinguishers? **Q69.** Green coating on copper is due to? Answer: Carbon dioxide Answer: Corrosion Q55. Which disease is caused by lack of iodine? Q70. Why solar panels on rooftops? Answer: Goitre Answer: To get maximum sunlight **Q56.** Which metal is liquid at room **Q71.** Why do we see lightning before thunder? temperature? Answer: Light travels faster than sound Answer: Mercury Q72. Why do objects look bent in water? **Q57.** Which gas do humans exhale? Answer: Refraction Answer: Carbon dioxide **Q73.** Which mirror is used in vehicles? **Q58.** SI unit of energy? Answer: Convex mirror Answer: Joule Q74. LPG mainly contains? Q59. Green pigment in plants? Answer: Butane & Propane Answer: Chlorophyll Q75. Which type of energy is in food? Q60. Which planet is called Red Planet? Answer: Chemical energy Answer: Mars **Q76.** Why do we see our breath in winter? Answer: Condensation of water vapor Section 3: Everyday Science (20 Questions) **Q77.** Why are woolen clothes warm? Answer: Air trapped inside wool insulates **Q61.** Why do we wear cotton in summer? Answer: Absorb sweat Q78. Which device converts sound to electric signals? Q62. Best utensil for cooking? Answer: Microphone Answer: Copper **Q79.** Which part of the eye controls light entry? **Q63.** A person near bonfire feels hot due to? ✓ Answer: Iris Answer: Radiation **Q80.** Which gas turns limewater milky? **Q64.** Why use pressure cooker? Answer: Carbon dioxide Answer: Both a & b (Saves gas + Cooks) faster) **Q65.** Fuse is made of? Section : Achievers Section (HOTS – 20

**Questions**)

Answer: Tin-lead alloy

**Q81.** Why do astronauts wear spacesuits?

Answer: d) All of the above

**Q82.** If car's speed doubles, KE becomes?

Answer: Quadruples

Q83. Why is sky blue?

Answer: Scattering of light

**Q84.** Plant bends toward light due to?

Answer: Phototropism

Q85. Balloon bursts when overfilled because?

Answer: Pressure inside increases

**Q86.** Non-biodegradable:

Answer: Glass

Q87. How do vaccines work?

Answer: Prepare immunity

**Q88.** If Earth's gravity disappears?

Answer: Things float

**Q89.** Sound travels faster in water because?

Answer: More particles are closer

**Q90.** Balloon attracts paper due to?

Answer: Static electricity

**Q91.** Why is space dark?

Answer: No atmosphere to scatter light

Q92. Why is iron coated with zinc?

Answer: To prevent rusting

**Q93.** Why do astronauts feel weightless?

Answer: Free fall with spacecraft

Q94. Why can't we hear in space?

Answer: No medium for sound

**Q95.** Why does ice float in water?

Answer: Ice is less dense

**Q96.** Why does the moon have no atmosphere?

Answer: Weak gravity

**Q97.** Which law explains rocket propulsion?

Answer: Newton's 3rd law

**Q98.** Why are metals shiny?

Answer: Free electrons reflect light

Q99. Why do stars twinkle?

Answer: Atmospheric refraction

Q100. Why can't we drink seawater?

Answer: High salt content

CE EXA