Section A: Mathematics (50 Questions)

Multiple Choice Questions (MCQs)

What is the value of 5 x 8?
a) 10
b) 40
c) 13
d) 30
Which of the following is a prime number?
a) 6
b) 11
c) 12
d) 15
Simplify: 4 + (8 x 2) - 3
a) 17
b) 23
c) 19
d) 25
What is the next number in the sequence: 2, 5, 8, 11, ___
a) 14
b) 15
c) 12
d) 17
Calculate the area of a rectangle with length 10 cm and width 5 cm.
a) 15 cm^2
b) 25 cm^2
c) 30 cm^2
d) 50 cm^2

Short Answer Questions

What is the difference between 73 and 48?
Write the prime factors of 24.
Evaluate: 7^2 - 5 x 3.
If a square has a side length of 6 cm, what is its perimeter?

How many degrees are there in a right angle?

Long Answer Questions

Explain the concept of fractions with suitable examples.
Describe the process of long division with an example.
Calculate the volume of a cube with a side length of 4 cm.
Solve the equation: 2x + 5 = 17.
Explain the properties of parallelograms.

Section B: Science (50 Questions)

Multiple Choice Questions (MCQs)

What is the process by which plants make their food called?
a) Photosynthesis
b) Respiration
c) Digestion
d) Fermentation
What is the chemical symbol for water?
a) Wo
b) Wa
c) H2O
d) Wt
Which of the following is a renewable energy source?
a) Coal
b) Natural gas
c) Solar power
d) Petroleum
Which organ is responsible for pumping blood throughout the body?
a) Liver
b) Heart
c) Lungs
d) Kidneys
What force keeps planets in orbit around the sun?

a) Magnetic force
b) Gravitational force
c) Frictional force
d) Centrifugal force

Short Answer Questions

Define the term 'ecosystem'.
Name three states of matter.
What is the function of the nucleus in a cell?
Explain the difference between a chemical change and a physical change.
Define reflection of light.

Long Answer Questions

Describe the water cycle and its importance.
Explain Newton's three laws of motion.
Discuss the importance of biodiversity.
Describe the structure and function of a plant cell.
Explain the process of digestion in the human body.