Exam Syllabus:

- Subjects: Mathematics and Science
- Based on: NCERT Curriculum
- Format: Objective Questions
- Total Marks: 100
- Monitoring: Under CCTV Surveillance
- **Negative Marking: 1/3 mark deduction**

Class 6 Mathematics Syllabus

1. Chapter 1: Knowing Our Numbers
    - Large numbers in practice
    - Estimation of numbers
    - Indian and International systems of numeration

2. Chapter 2: Whole Numbers
    - Natural numbers
    - Whole numbers
    - Number line

3. Chapter 3: Playing with Numbers
    - Factors and multiples
    - Prime and composite numbers
    - Tests for divisibility

4. Chapter 4: Basic Geometrical Ideas
    - Line, line segment, and ray
    - Curves, polygons
    - Circles, angles, triangles

5. Chapter 5: Understanding Elementary Shapes
    - Measuring line segments
    - Types of angles, triangles
    - Quadrilaterals, polygons
    - 3D shapes: cubes, cuboids, spheres, etc.

6. Chapter 6: Integers
   - Introduction to integers
   - Addition and subtraction of integers

7. Chapter 7: Fractions
   - Concept of fractions
   - Types of fractions (like, unlike, proper, improper, etc.)
   - Addition and subtraction of fractions

8. Chapter 8: Decimals
   - Concept of decimals
   - Addition and subtraction of decimals
   - Place value in decimals

9. Chapter 9: Data Handling
   - Introduction to data handling
   - Recording and organizing data
   - Bar graphs, pictographs

10. Chapter 10: Mensuration
    - Perimeter of figures
    - Area of squares and rectangles

11. Chapter 11: Algebra
    - Introduction to algebra
    - Variables, expressions, and equations
    - Using expressions practically

12. Chapter 12: Ratio and Proportion
    - Concept of ratio
    - Proportion and its applications

13. Chapter 13: Symmetry
    - Line of symmetry for different shapes
    - Rotational symmetry

14. Chapter 14: Practical Geometry
    - Using ruler and compass
    - Construction of line segments, circles, angles, perpendiculars, etc.

Class 6 Science Syllabus

1. Chapter 1: Food: Where Does It Come From?
   - Food sources: Plants and animals
   - Ingredients in food

2. Chapter 2: Components of Food
   - Nutrients in food
   - Balanced diet
   - Deficiency diseases

3. Chapter 3: Fibre to Fabric
   - Different types of fibers (natural and synthetic)
   - Fabric production process

4. Chapter 4: Sorting Materials into Groups
   - Classification of objects
   - Properties of materials (appearance, hardness, solubility)

5. Chapter 5: Separation of Substances
   - Methods of separation (handpicking, sieving, filtration, etc.)
   - Soluble and insoluble substances

6. Chapter 6: Changes Around Us
   - Reversible and irreversible changes
   - Physical and chemical changes

7. Chapter 7: Getting to Know Plants
   - Parts of plants (roots, stems, leaves, flowers)
   - Classification of plants (herbs, shrubs, trees)
   - Types of roots, venation, etc.

8. Chapter 8: Body Movements
   - Human skeletal system and muscles
   - Types of joints
   - Movement in animals

9. Chapter 9: The Living Organisms and Their Surroundings
   - Characteristics of living organisms

- Adaptations in living organisms

10. Chapter 10: Motion and Measurement of Distances
    - Concept of motion
    - Types of motion (rectilinear, circular, periodic)
    - Standard units of measurement

11. Chapter 11: Light, Shadows and Reflections
    - Light and its sources
    - Formation of shadows
    - Reflection of light

12. Chapter 12: Electricity and Circuits
    - Electric circuits
    - Conductors and insulators
    - Cells, switches, and bulbs

13. Chapter 13: Fun with Magnets
    - Properties of magnets
    - Magnetic and non-magnetic materials
    - Poles of magnets

14. Chapter 14: Water
    - Importance of water
    - Water cycle
    - Conservation of water

15. Chapter 15: Air Around Us
    - Composition of air
    - Importance of air for living beings

16. Chapter 16: Garbage In, Garbage Out
    - Waste management
    - Types of wastes (biodegradable and non-biodegradable)
    - Recycling, reuse, and composting

Here's the detailed chapter-wise breakdown of the Class 7 CBSE and NCERT syllabus for Mathematics and Science: