

---

---

# CONTENTS

---

---

- Previous Year Paper–Fully Solved

## PART-I

- **General Knowledge** .....1–40
- **General Science** .....1–16
- **Computer Knowledge** .....1–16

## PART-II

- **Objective Arithmetics** .....1–48
  1. Four Fundamental Rules .....3
  2. Decimal Fractions .....6
  3. H.C.F. and L.C.M. ....8
  4. Vulgar Fractions .....10
  5. Square Root .....13
  6. Percentage .....15
  7. Ratio and Proportion .....18
  8. Partnership .....21
  9. Profit and Loss .....23
  10. Work and Time .....26
  11. Time and Distance .....29
  12. Interest .....31
  13. Average .....34
  14. Area .....36
  15. Volume .....39
  16. Interpretation of Data .....42
  17. Miscellaneous Exercise .....45

## PART-III

- **General Intelligence & Reasoning** ...1–68
  1. Alphabetical Test .....3–9
  2. Coding-Decoding Test .....10–15
  3. Spotting Out the Dissimilar .....16–19

4. Analogy Test .....20–23
5. Series Completion Test .....24–28
6. Arranging in Order .....29–32
7. Direction Sense Test .....33–36
8. Number Test and Time Sequence Test .....37–40
9. Deductive Logic .....41–50
10. Blood-Relation Test .....51–55
11. Assigning Artificial Values to Arithmetic Signs .....56–58
12. Assumption Type Test .....59–62
13. Most Essential Component and Venn Diagram .....63–65
14. Statement and Arguments .....66–67

## PART-IV

- **Electrical Engineering** .....1–36
  1. Current Electricity .....3–8
  2. Electrostatics .....9–14
  3. Magnetism and Electromagnetism .....15–19
  4. Alternating Current .....20–31
  5. Electrical Machines and Measurement .....32–34
  6. Electronics .....35–36

## PART-V

- **Civil Engineering** .....1–32
  1. Applied Mechanics, Strength of Material Sand Hydraulic Engineering .....2–6
  2. Surveying .....7–11

3. Irrigation Engineering, Public Health Engineering and Highway, Railway and Bridge Engineering .....12–23
4. Concrete Technology, Reinforced Cement Concrete of Steel Structures .....24–27
5. Soil Mechanics, Advance Construction Technology and Construction, Management, Accounts .....28–32

### **PART-VI**

- **Mechanical Engineering** ..... **1–52**
  1. Thermodynamics .....2–6
  2. Nuclear Power Plant .....7–11

3. Applied Mechanics .....12–16
4. Strength of Materials .....17–21
5. Fluid Mechanics .....22–26
6. Internal Combustion Engine .....27–31
7. Steam Boilers, Compressors, Engines, Nozzles, Turbines, Gas Turbines and Jet Engines ...32–36
8. Heat Transfer, Refrigeration and Air-conditioning .....37–41
9. Theory of Machines and Machine Design .....42–45
10. Engineering Materials .....46–48
11. Production Engineering, Industrial Engineering and Management .....49–52

