

CONTENTS

● Previous Years Paper—Fully Solved

Part—I : General Ability Test

General Knowledge.....	1–31
General English.....	1–63

Part—II : Basic Engineering

1. Applied Mathematics :	1–148
☞ Matrix.....	3
● Objective Problems.....	5
● Answers with Explanatory Notes.....	10
☞ Determinant.....	19
● Objective Problems.....	22
● Answers with Explanatory Notes.....	23
☞ Integral Calculus.....	25
● Objective Problems.....	28
● Answers with Explanatory Notes.....	29
☞ Differential Calculus.....	35
● Objective Problems.....	44
● Answers with Explanatory Notes.....	51
☞ Partial Differentiation.....	68
● Objective Problems.....	69
● Answers with Explanatory Notes.....	71
☞ Differential Equation.....	74
● Objective Problems.....	76
● Answers with Explanatory Notes.....	79
☞ Vector Alzebra.....	85
● Objective Problems.....	88
● Answers with Explanatory Notes.....	92
☞ Complex Numbers.....	99
● Objective Problems.....	104
● Answers with Explanatory Notes.....	111
☞ Co-ordinate Geometry.....	117
● Objective Problems.....	124
● Answers with Explanatory Notes.....	133
2. Applied Physics :	1–28
● Objective Problems.....	12
● Answers with Explanatory Notes.....	21

3. Basic Electricity	1–103
● Electrostatics.....	3
● Electromagnetism.....	20
● Basic Magnetism.....	32
● Electromagnetic Induction.....	43
● Objective Problems.....	52
● Answers with Explanatory Notes.....	84
4. Electronic Devices and Circuits	1–116
● Objective Problems.....	57
● Answers with Explanatory Notes.....	70
● Miscellaneous Problems.....	93
● Answers with Explanatory Notes.....	107
5. Digital Techniques	1–51
● Synopsis on Digital Techniques.....	3
● Objective Problems.....	30
● Answers with Explanatory Notes.....	45

Part–III : Specialization

Communication	1–60
● Objective Problems.....	24
● Answers with Explanatory Notes.....	43
Microwave Engineering	1–31
● Objective Problems : Level 1.....	19
● Answers.....	26
● Objective Problems : Level 2.....	27
● Answers with Explanatory Notes.....	31
Instruments and Measurements	1–52
● Synopsis on Instruments and Measurements.....	3
● Objective Problems.....	29
● Answers with Explanatory Notes.....	44
Control Systems	1–47
● Objective Problems.....	23
● Answers with Explanatory Notes.....	34
Microprocessor	1–36
● Objective Problems.....	15
● Answers with Explanatory Notes.....	22
● Short Answer Type Questions.....	25
● Miscellaneous Problems.....	27
● Answers with Explanatory Notes.....	32
Computer Engineering	1–16
Electrical	1–40
Network, Filters and Transmission Lines	1–16
Database Management System	1–20