
CONTENTS

PAPER-I

1. Electrical Engineering Materials (<i>i.e.</i>, Materials and Components)	1–39
● Objective Problems.....	15
● Answers with Explanatory Notes.....	33
2. Electronics Devices (<i>i.e.</i>, Physical Electronics Devices and ICs)	1–96
● Objective Problems.....	28
● Answers with Explanatory Notes.....	51
● Miscellaneous Problems.....	74
● Answers with Explanatory Notes.....	88
3. Signals & Systems	1–96
● Objective Problems.....	38
● Answers with Explanatory Notes.....	61
4. Network & Systems (<i>i.e.</i>, Network Theory)	1–136
● Objective Problems on Switching.....	28
● Answers with Explanatory Notes.....	30
● Objective Problems : Level 1.....	34
● Answers with Explanatory Notes.....	62
● Objective Problems : Level 2.....	105
● Answers with Explanatory Notes.....	116
5. Electromagnetics (<i>i.e.</i>, Electromagnetic Theory)	1–60
● Objective Problems : Level 1.....	23
● Answers with Explanatory Notes.....	26
● Objective Problems : Level 2.....	27
● Answers with Explanatory Notes.....	42
6. Measuring Instruments (<i>i.e.</i>, Electronic Measurements and Instrumentation)	1–44
● Objective Problems.....	23
● Answers with Explanatory Notes.....	36
7. Power Electronics	1–51
● Objective Problems : Level 1.....	35
● Answers.....	40
● Objective Problems : Level 2.....	41
● Answers.....	51

PAPER-II

1. Analog Circuits (<i>i.e.</i>, Analog Electronic Circuits)	1–88
● Objective Problems.....	39
● Answers with Explanatory Notes.....	64

2. Digital Circuits	1–56
● Objective Problems : Level 1.....	28
● Answers.....	33
● Objective Problems : Level 2.....	
(i) Problems of Boolean Theorems and Logic Gates.....	34
● Answers with Explanatory Notes.....	37
(ii) Problems on Combinational Logic Circuits.....	41
● Answers with Explanatory Notes.....	43
(iii) Problems on Sequential Circuits : Flip-Flop.....	45
● Answers with Explanatory Notes.....	48
(iv) Problems on Counter.....	49
● Answers with Explanatory Notes.....	52
(v) Problems on Register.....	52
● Answers.....	53
(vi) Problems on Memory Organisation.....	53
● Answers with Explanatory Notes.....	55
3. Control Systems	1–76
● Objective Problems.....	24
● Answers with Explanatory Notes.....	47
4. Communications	1–56
● Objective Problems : Level 1.....	25
● Answers with Explanatory Notes.....	28
● Objective Problems : Level 2.....	29
● Answers with Explanatory Notes.....	35
● Objective Problems : Level 3.....	36
● Answers with Explanatory Notes.....	47
5. Microwave Engineering	1–31
● Objective Problems : Level 1.....	19
● Answers.....	26
● Objective Problems : Level 2.....	27
● Answers with Explanatory Notes.....	31
6. Computer Engineering	1–16
7. Microprocessor	1–64
● Objective Problems : Level 1.....	16
● Answers with Explanatory Notes.....	23
● Short Answer Type Questions.....	26
● Miscellaneous Problems on Digital Circuits & Microprocessor.....	27
● Answers with Explanatory Notes.....	47
8. Dictionary of Electronics	1–16
◆ Model Practice Papers	1–48
□ Practice Paper - I.....	3
● Answers with Hints.....	12
□ Practice Paper - II.....	23
● Answers with Hints.....	32
