

# **CONTENTS**

## ● Previous Years' Solved Papers

<b>1. Network &amp; Systems</b>	<b>1–88</b>
● Objective Problems.....	23
● Answers with Explanatory Notes.....	49
<b>2. Electronics Devices</b>	<b>1–79</b>
● Objective Problems.....	33
● Answers with Explanatory Notes.....	43
● Miscellaneous Problems.....	52
● Answers with Explanatory Notes.....	68
<b>3. Analog Circuits</b>	<b>1–88</b>
● Objective Problems.....	39
● Answers with Explanatory Notes.....	64
<b>4. Digital Circuits</b>	<b>1–51</b>
● Objective Problems : Level 1.....	30
● Answers.....	34
● Objective Problems : Level 2.....	
(i) Problems of Boolean Theorems and Logic Gates.....	35
● Answers with Explanatory Notes.....	37
(ii) Problems on Combinational Logic Circuits.....	41
● Answers with Explanatory Notes.....	43
(iii) Problems on Sequential Circuits : Flip-Flop.....	44
● Answers with Explanatory Notes.....	47
(iv) Problems on Counter.....	48
● Answers with Explanatory Notes.....	50
(v) Problems on Register.....	50
● Answers .....	51
(vi) Problems on Memory Organisation.....	51
● Answers with Explanatory Notes.....	51
<b>5. Microprocessor</b>	<b>1–56</b>
● Objective Problems : Level 1.....	15
● Answers with Explanatory Notes.....	22
● Short Answer Type Questions.....	24
● Miscellaneous Problems on Digital Circuits & Microprocessor.....	25
● Answers with Explanatory Notes.....	41
<b>6. Signals &amp; Systems</b>	<b>1–112</b>
● Objective Problems.....	45
● Answers with Explanatory Notes.....	71

<b>7. Control Systems</b>	<b>1–79</b>
● Objective Problems.....	26
● Answers with Explanatory Notes.....	50
<b>8. Communications</b>	<b>1–64</b>
● Objective Problems : Level 1.....	29
● Answers with Explanatory Notes.....	32
● Objective Problems : Level 2.....	34
● Answers with Explanatory Notes.....	39
● Objective Problems : Level 3.....	41
● Answers with Explanatory Notes.....	52
<b>9. Electromagnetics</b>	<b>1–56</b>
● Objective Problems : Level 1.....	24
● Answers with Explanatory Notes.....	27
● Objective Problems : Level 2.....	28
● Answers with Explanatory Notes.....	44
<b>10. Dictionary of Electronics</b>	<b>1–16</b>
<b>11. Engineering Mathematics</b>	<b>1–84</b>
● Linear Algebra.....	3
● Objective Problems on Linear Algebra.....	5
● Answers with Hints.....	11
● Differential Calculus.....	24
● Objective Problems on Differential Calculus.....	26
● Answers with Hints.....	30
● Differential Equation.....	40
● Objective Problems on Differential Equations.....	42
● Answers with Hints.....	45
● Complex Variable.....	53
● Objective Problems on Complex Variable.....	54
● Answers with Hints.....	57
● Probability and Statistics.....	65
● Objective Problems on Probability and Statistics.....	68
● Answers with Hints.....	70
● Numerical Method.....	77
● Objective Problems on Numerical Method.....	81
● Answers with Hints.....	82
<b>◆ Model Question Papers</b>	<b>1–48</b>
□ Practice Paper - 1.....	3
● Answers with Hints.....	12
□ Practice Paper - 2.....	23
● Answers with Hints.....	32