Kerala Board

Answer Key

2024

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ANSWER KEY

CODE NO	SY- 553

SECOND YEAR HIGHER SECONDARY EXAMINATION MARCH 2024

PART III

SUBJECT : ELECTRONIC SYSTEMS

60 SCORES 2 HOURS

Qn. No	Sub Qns	Answer Key/Value Points	Score	Total Score
		(Answer any 5 questions from 1 to 6 - 1 score each)		
1		Differentiator	1	1
2		VLSI	1	1
3		Common Mode Rejection Ratio	1	1
4		1	1	1
5		Uplink	1	1
6		Total internal reflection	1	1
		(Answer any 11 questions from 7 to 18 - 2 scores each)		
7		Definition of Clipper Definition of Clamper	1 1	2
8	a b	Frequency response curve of LPF (Ideal or practical) $F = 1 / 2\pi RC$	1 1	2
9		Any 2 comparison between positive and negative feedback	2 x 1	2
10	a b	741 Pin diagram of IC 741	1 1	2
11		Block diagram of linear power supply	2	2
12		Block diagram & explanation	2	2

13		Any 2 comparisons between online & offline UPS	2 x 1	2
14	a b	2 Block diagram of 4 : 1 multiplexer	1 1	2
15		Definition & any 1 use of decoder	2	2
16		Any 2 comparisons between TTL & CMOS	2 x 1	2
17		Block diagram of PA system	2	2
18	a b	Definition of word length Any 1 example of 8 bit microprocessor	1 1	2
		(Answer any 7 questions from 19 to 27 - 3 scores each)		
19	a b c	Combinational clipper Output waveform Working	1 1 1	3
20	a b	RC phase shift oscillator Circuit diagram	1 2	3
21		IC fabrication steps	3	3
22		Circuit diagram of Non inverting amplifier	3	3
23	a b	Electro magnetic induction Constructional details of moving coil microphone	1 2	3
24		Block diagram & explanation of satellite communication	3	3
25		Any 2 comparisons between step index & graded index OFC	2 x 1 ½	3
26		Block diagram of BP apparatus	3	3
27	a b	D Flip flop Diagram of 4 bit SISO Shift register	1 2	3

		(Answer any 3 questions from 28 to 32 – 4 scores each)		
28	a b c	Circuit diagram of positive clamper Positive clamper Working of positive clamper	2 1 1	4
29	a b	0 Circuit diagram astable multivibrator using IC 555	1 3	4
30	a b c	10 Block diagram of decade counter Truth table of decade counter	1 2 1	4
31		Block diagram of monochrome TV receiver	4	4
32	a b c	Any 1 OS in mobile phones Block diagram of RADAR Function of duplexer	1 2 1	4

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