

ANSWER KEY

SAY/IMP
SECOND YEAR HIGHER SECONDARY EXAMINATION June 2023
 PART-1/II/III

SUBJECT: ELECTRONIC SYSTEMS

CODE NO: 5-2253

VERSION: 1

60 SCORES

2 HOURS

Qn. No	Sub Qns	Answer Key/Value Points	Score	Total Score
1.		$A = 1 + \frac{R_F}{R_1}$	1	1
2.		Infinity	1	1
3.		crystal oscillator	1	1
4.		3	1	1
5		455 KHZ	1	1
6.		16		
7.		Frequency response curve $f_c = \frac{1}{2\pi RC}$	1 1	2.
8		Barkhausen criteria.	1x2	2
9.	a	voltage follower	1	2.
	b.	circuit	1	
10		555 Multivibrator circuit	2	2.
11		Block diagram of inverter	2	2
12.		Any two comparison	1x2	2

Qn. No	Sub Qns	Answer Key/Value Points	Score	Total Score
13		Any two differences.	1x2	2
14		Circuit diagram of 4 Bit Serial in Serial out Shift register	2	2
15		Block diagram of PA system	2	2
16		Constructional diagram of moving coil LS.	2	2
17		Block diagram of Satellite communication	2	2
18		Any two comparison of GSM and CDMA	1x2	2
19		Any two differences of microprocessors and microcontroller.	1x2	2
20	a.	Circuit diagram of positive clamper with positive bias	2	3
	b.	out put wave form	1	
21	a.	Integrator.	1	3
	b.	Circuit diagram of integrator	2	
22	a.	Block diagram of SMPS	2	3
	b.	Any two advantages of SMPS	1/2x2	
23	a.	JK-Flip-flop	1	3
	b.	Circuit of JK flip-flop	2	
24		Block diagram of TV transmitter	3	3

Qn. No	Sub Qns	Answer Key/Value Points	Score	Total Score
25	a)	Inter laced Scanning	1	3
	b)	concept of Scanning	2	
26		Any three generations	1x3	3
27	a.	Explanation	2.	3
	b.	constructional diagram	1	
28	a.	Any two use	$\frac{1}{2} \times 2$	3
	b.	Block diagram BP apparatus	2	
29	a.	Combinational circuit	1	4
	b.	circuit diagram	3	
30	a.	RC Phase Shift Oscillator	1	4
	b.	circuit diagram	3	
31		Four steps	1x4	4
32		Any four characteristics	1x4	4
33	a	circuit of 3 bit asynchronous counter	2	4
	b.	Counting Sequence	2	