

ANSWER KEY

SAY/IMP
SECOND YEAR HIGHER SECONDARY EXAMINATION June 20 23

PART-III/III

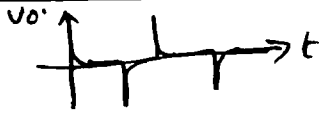
SUBJECT: ELECTRONICS

CODE NO: S2231

VERSION: _____

60 SCORES

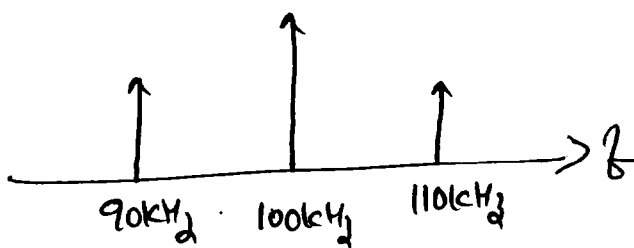
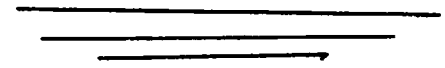
2 HOURS

Qn. No	Sub Qns	Answer Key/Value Points	Score	Total Score
1		Spike waveform 	1	1
2		a) 1	1	1
3		b) 28m		
4		b) 3-30 MHz.	1	1
5		LED OR LASER diode	1	1
6		7 MHz	1	1
7		a) Scanner	1	1
8		c) WAN	1	1
9		GPS - Global positioning System	1	1
10		Connection diagram	2	2
11		circuit diagram	2	2
12		Symbols Truth Table	1 1	2

-2-

Qn. No	Sub Qns	Answer Key/Value Points	Score	Total Score
13		Frequency spectrum	2	2
14.		Definition	2	2
15		$f_s = 2f_m$ OR statement	2	2
16		Two conditions 1+1	2	2
17		Explanation	2	2
18.		Bus topology - structure	2	2
19.		Any two points	1+1	2
20.		Frequency Reuse - Explanation	2	2
21.		3 limitations	1+1+1	3
22.		3 Applications	1+1+1	3
23.		AM waveforms	3	3
24.	a	Definition	1 1/2	} 3
	b)	Purpose of Quantisation	1 1/2	

Qn. No	Sub Qns	Answer Key/Value Points	Score	
25.		3 advantages	1+1+1	3
26.	a	Sound - FM (1) Video - AM (VSB) (1)	2	3
	b	Functions of Video detector	1	
27.		Circuit output wave form	2 1	3
28.		Input device examples (2 nos) Output devices any 2 examples	1 1/2 1 1/2	3
29.		Any 3 advantages	1+1+1	3
30		Circuit Explanation	2 2	4
31		LPF Circuit Ideal freq. Response Practical freq. Response	2 1 1	4

Qn. No	Sub Qns	Answer Key/Value Points	Score	Total Score
32.		 <p data-bbox="399 560 1181 739">Bandwidth = $2f_m = 2 \times 10 \text{ kHz}$ = 20 kHz</p>	3 1	4
33.	a) b)	Comparison any 3 points Any one advantage	3 1	4
34	a) b)	Dispersion Inter symbol interference 	2 2	4