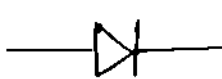


ANSWER KEY

First... YEAR HIGHER SECONDARY EXAMINATION ... March.... 20.25

PART-#H/III ✓

SUBJECT: ELECTRONICSCODE NO: FV 331VERSION: C60 SCORES2 HOURS

Qn. No	Sub Qns	Answer Key/Value Points	Score	Total Score
1	-	b) $1\text{ k}\Omega$	1	1
2	-	c) $V \cdot I$	1	1
3	-	b) conduction band	1	1
4	-		1	1
5	-	c) $I_B + I_C$	1	1
6	-	a) V_m	1	1
7	-	c) crystal oscillator	1	1
8	-	a) 0 and 1	1	1
9	-	b) High value resistor	1	1
10	-	~~Two~~ any two applications 1 score each	2	2
11	-	statement	2	2

Qn. No	Sub Qns	Answer Key/Value Points	Score	Total Score
12.	(i)	Explanation	1	2
	(ii)	Explanation	1	
13.	-	V-I characteristics graph	2	2
14.	(i)	Symbol of NPN	1	2
	" "	PNP	1	
15	(i)	Junction Field Effect Transistor	1	2
	(ii)	Metal Oxide Semiconductor Field Effect Transistor	1	
16	-	Circuit diagram	2	2
17.	-	Two disadvantages. 1 score each	2	2
18	(i)	Explanation	1	2
	(ii)	Explanation	1	
19	-	0 and 1 or high and low or ON and OFF	2	2
20	-	Symbol of air core, iron core and ferrite core 1 score each	3	3
21	a.	Frequency	1	3
	b)	Time Period	1	
	c)	Phase angle	1	

Qn. No	Sub Qns	Answer Key/Value Points	Score	Total Score
22.	a)	Energy band diagram of Insulator	1	3
	b)	Semiconductor	1	
	c)	Conductor	1	
23.	(i)	symbol	1	3
	(ii)	comparison.	2	
24.	a.	Active	1	3
	b)	Forward	1	
	c)	Reverse	1	
25	(i)	Source	1	3
	(ii)	Drain	1	
	(iii)	Gate	1	
26	-	circuit diagram	1	3
		I/p wave forms	1	
		o/p wave forms	1	
27.	-	Block diagram of PA system	3	3

Qn. No	Sub Qns	Answer Key/Value Points	Score	Total Score
28	(i)	$(10110)_2 = (22)_{10}$	1	3
	(ii)	$(111101)_2 = 61$	1	
	(iii)	$(1111)_2 = 15$	1	
29.	(i)	$\beta = \frac{I_C}{I_B}$	1	4
	(ii)	Derivation	3	
30	(i)	1.21	1	4.
	(ii)	0.48	1	
	(iii)	40.6 %	1	
	(iv)	81.2 %	1	
31.	(i)	Diagram	2	4.
	(ii)	~~Derivation~~ Derivation	2	
32.		Explanation	2	4.
		Diagram	2	

Qn. No	Sub Qns	Answer Key/Value Points	Score	Total Score
33.	-	Logic symbol o/p equation Truth table	1 1 2	4.