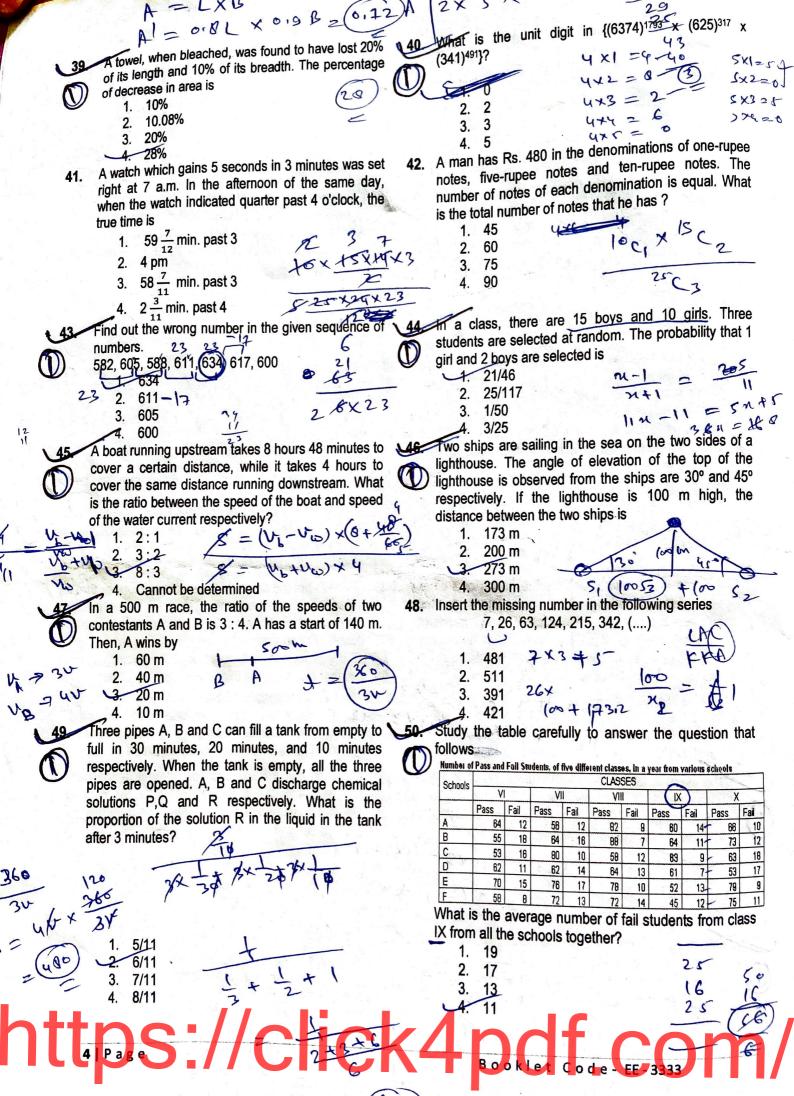
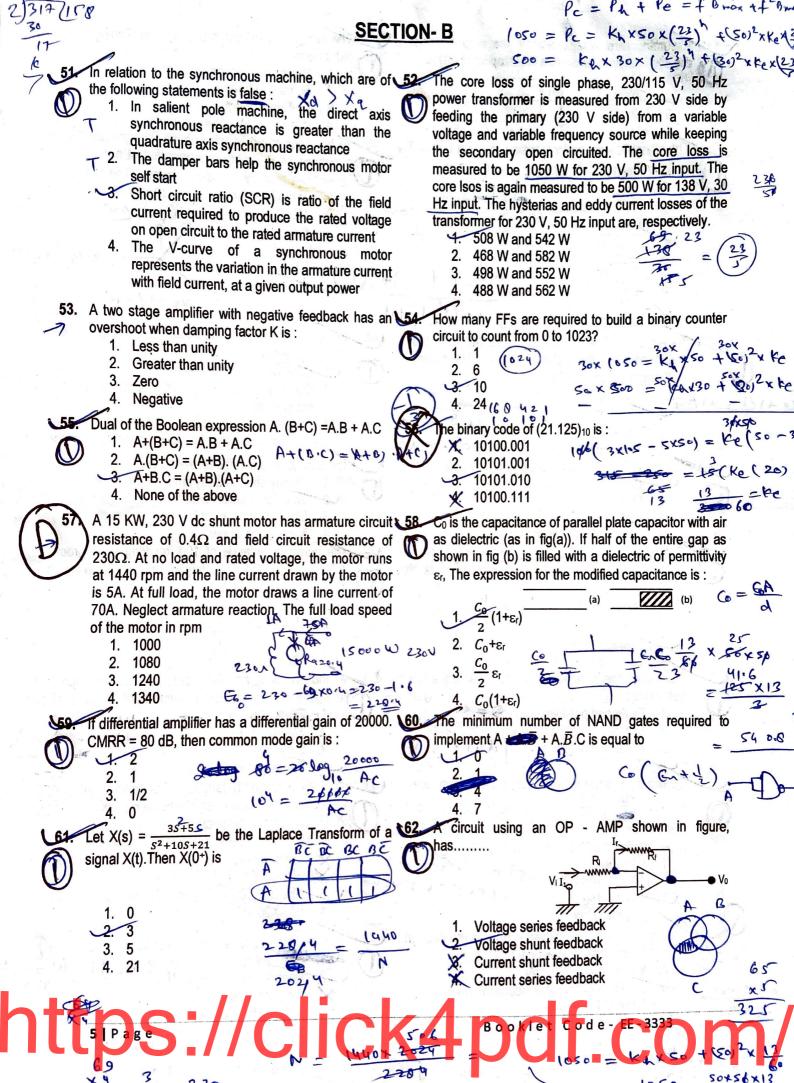
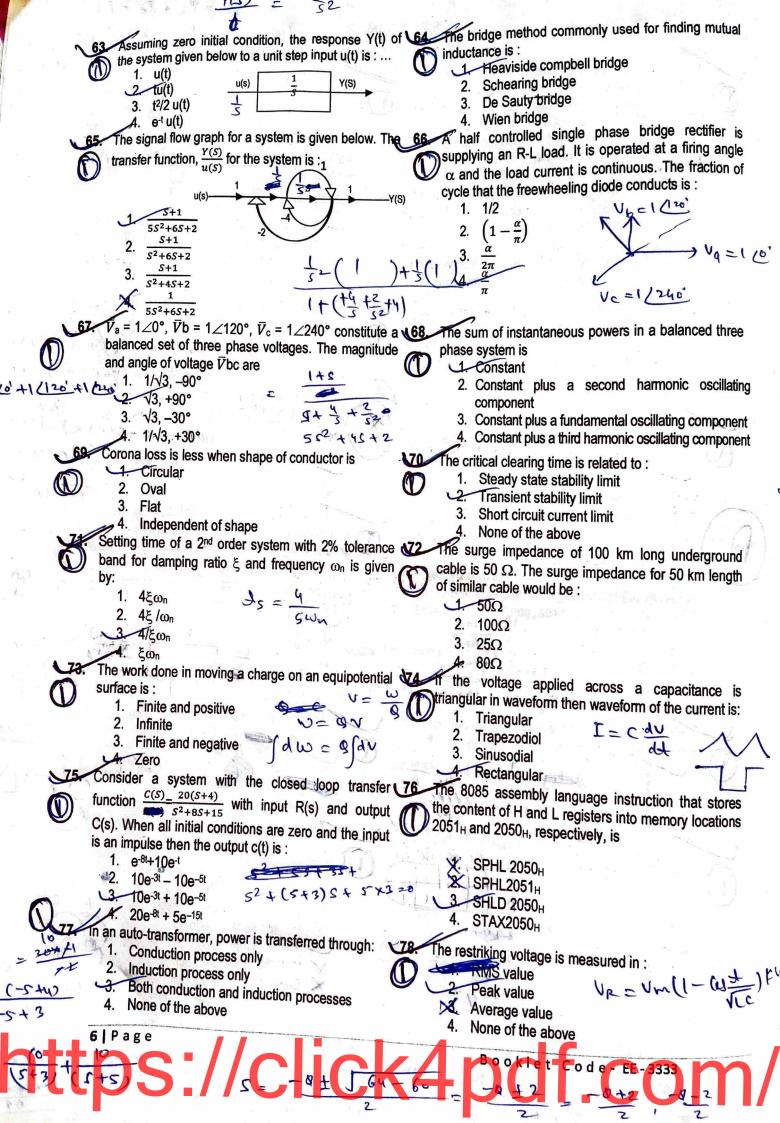


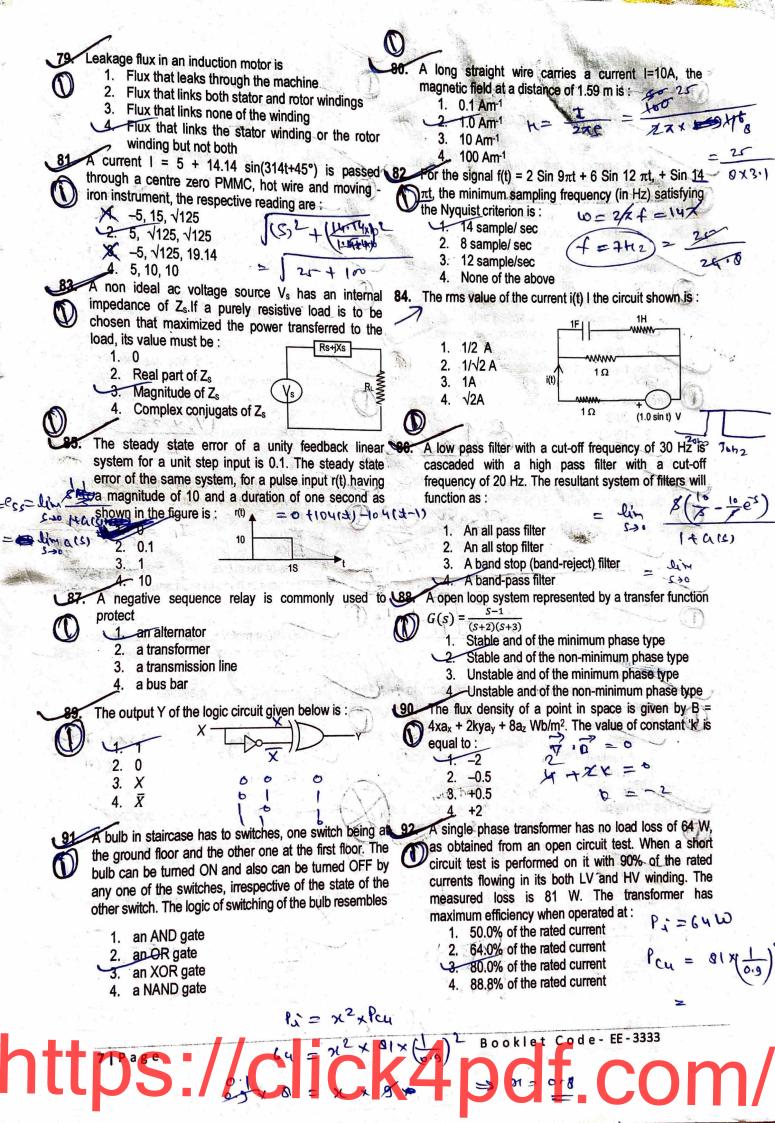
76 O	UX N /2 1 2 (5,41)	(B) XOS	
200 + 360 4360	1666 C 20x24 +	(5x24 + zox(8)	
(3	o collect as many paise 16.		water
from each member of ground	as is the number of	and 5 parts syrup. How much (in fraction of vessel of the mixture must be drawn off and replaced with	Was '
members If the total colle	ction amounts to Rs.	so that the mixture may be half water and half syrup)
59.29, the number of the mem	ibers in the group is		
1. 57		1. 1/3 2. 1/4	
720 +450 2. 67 C3 3. 77		3. 1/5	
3. 77 3. 87		4. 1/7	
7	ou con amphy a tank in	a camp, there is a meal for 120 men or 200 child	ren.
2 days. How many hours a d	av muet 4 numne work	If 150 children have taken the mean new many i	nen
2 days. How many hours a d to empty the tank in 1 day?	lay must 4 pumps work	may be catered with the remaining meal?	
1. 9 3 4 0	4 x x	1, 20 120 M = 200 C	_
2. 10	1/1	2.30 6 X 15d 150 C	
3. 11		1600	
4. 12		4. 00	
19. A milk vendor has 2 cans of		A train can travel 50% faster than a car. Both start fi	rom
25% water and the rest milk		point A at the same time and reach point B 75 away from A at the same time. On the way, howe	ims
50% water. How much milk s of the containers so as to ge		the train lost about 12.5 minutes while stopping at	
that the ratio of water to milk i		stations. The speed of the car is	410
1. 4 litres, 8 litres	2	1. 100 km /hr	
2. 6 litres, 6 litres	3x8142 = 4xx	2. 110 km /hr	
3. 5 litres, 7 litres		3. 120 km /hr	
4. 7 litres, 5 litre		4. 130 km /hr	
21. In a flight of 600 km, an airc		그 그 그 그 그 그 그 그 그 그 그 그 그 그 그 그 그 그 그	
due to bad weather. Its aver was reduced by 200 km/hr	age speed for the trip	done by train and the rest by car. It takes 20 minu	
increased by 30 minutes. The		more, if 200 km is done by train and the rest by	ar.
1. 1 hour	adiation of the might to	The ratio of the speed of the train to that of the cars i	S
2. 2 hours		1. 2:3 2. 3:2	
3. 3 hours	The same of the sa	3. 3:4 chokus Con	
4. 4 hours		4. 4:3 Train	
23. A, B and C jointly thought of e	engaging themselves in 24	A and B started a business in partnership investing	Rs
a business venture. It was	agreed that A would	20,000 and Rs. 15,000 respectively. After six month	ths,
invest Rs. 6500 for 6 month months and C, Rs. 10,000 fo	hs, B, Rs. 8400 for 5	Cloined them with Rs. 20,000 What will be B's sh	are
be the working member for w	hich, he was to receive	in total profit of Rs. 25,000 earned at the end of 2 ve	ars
5% of the profits. The profit	earned was Rs. 7400	norm the starting of the business?	
Calculate the share of B in the	profit.	1 120 +	90
1. Rs. 1900	,000×24	4 Bo 7500	J.C
2. Rs. 2660 A 3. Rs. 2800	. 2 Y	4. Rs. 7500 2. Rs. 9000	0
4. Rs. 2840	15000 X	3. Rs. 9500 \\ \frac{1}{3} = \frac{200}{3}	50
25. In a triangle PQR, the length	(5000 × 24 C → 20,000 × 1	4. Rs. 10,000	
25. In a triangle PQR, the length than twice the length of the	of the side QR is less	A rectangular park 60 m long and 40 m wide has	two
iciluli di me side PR exceed	S the length of the	Jordan Clussion of the middle of the r	ark
i do by to citi. The perimeter	IS 40 cm. The length of	The root of the park has been used as a lawn if	me
the smallest side of the thange	e PQR is	and of the lawn is 2100 ca me than what is the width	n of
1. 6 cm		60m	
2. 8 cm 3. 7 cm	= XX40 +21x60	1. 2.91 m	om
4.) 10 cm	I WIN		1
		Ly Hope of the	

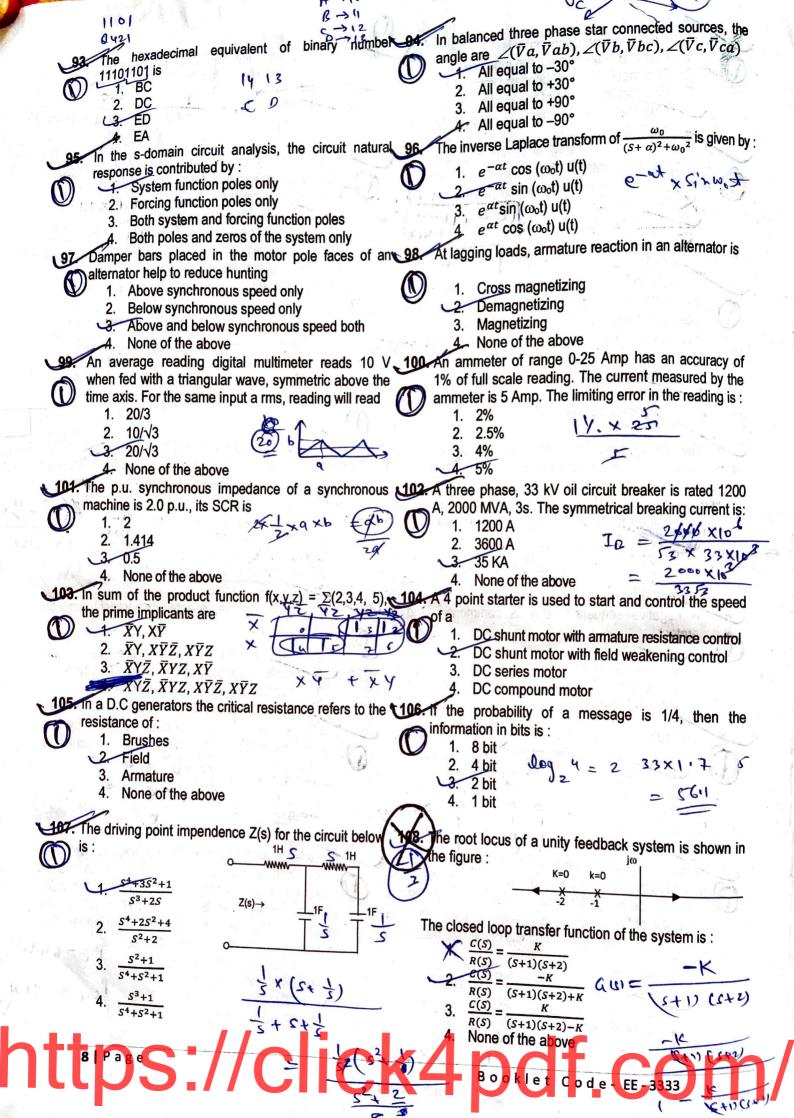
27.	marks in all of them. If he obtained 60% marks in the test and all questions carried equal marks, then what	A cuboid has six sides of different colours. The red side is opposite to black. The blue side is adjacent to white. The brown side is adjacent to blue. The red side is face down. Which one of the following would be the opposite to brown?
	1. 36 2. 30 3. 25 4. 20	 Red Black White Blue
29.	same as the number already present in the basket.	A person traveled a distance of 50 km in 8 hours. He covered a part of the distance on foot at the rate of 4 km per hour and a part on a bicycle at the rate of 10 km per hour. How much distance (in km) did he travel on foot?
جارت پودائور	1. 6 2. 12 3. 17 4. 22	1. 10 2. 20 3. 30 4. 40
31.	others have yellow covers. Books A, B and D are new while the rest are old volumes. Books A, B and C are law	Half of the villagers of a certain village have their own houses. One – fifth of the villagers cultivate paddy. One – third of the villagers are literate. Four – fifth of the villagers are below twenty five. Then, which one of the following is certainly true?
	1. B and C 2. E and F 3. C and E 4. C and F	 All the villagers who have their own houses are literate. Some villagers under twenty five are literate. A quarter of the villagers who have their own houses cultivate paddy. Half of the villagers who cultivate paddy are literate.
33.	move without jerking. The clock shows a time between 8 o'clock and 9 o'clock. The two hands of the clock are one above the other. After how many minutes (nearest integer) will the two hands be again lying one above the other?	"Price is not the same thing as value. Suppose that on a day the price of everything viz., coal, bread, postage stamps, a day's labour, the rent of houses, etc. were to double. Prices then would certainly rise, but values of all things except one would not." The writer wants to say that if prices of all things were doubled, then
· .	1 60 Tw+ TT+TE =40×3	 The values of all things would remain constant. The values of the things sold would be doubled. The values of the things bought would be halved. The value of money only would be halved.
35	Saturday was 41°C. If temperature on Saturday was	A person has 4 coins each of different denominations, say Rupee 1 , 2 , 5 and 10. What is the number of different sums of money the person can form (using one
	1. 39° C 2. 44° C 3. 38° C 4. 41° C $= 3(-1) + h^2$	2 1. 6 2. 15 3. 12 3 4. 11 On what dates of April, 2001 did Wednesday fall?
0	Find the 15th term of the sequence 20, 15, 10 $= 38.4$ 145 255 $= 3.20$ 4. 0 $= 3.40$ $= 3.40$	On what dates of April, 2001 did Wednesday fall? 1. 1st, 8th, 15th, 22nd, 29th 2. 2nd, 9th, 16th, 23rd, 30th 3. 3rd, 10th, 17th, 24th 4. 4th, 11th, 18th, 25th
	3 Page 2 20 - 70 = 100	Booklet Code- EE-3333

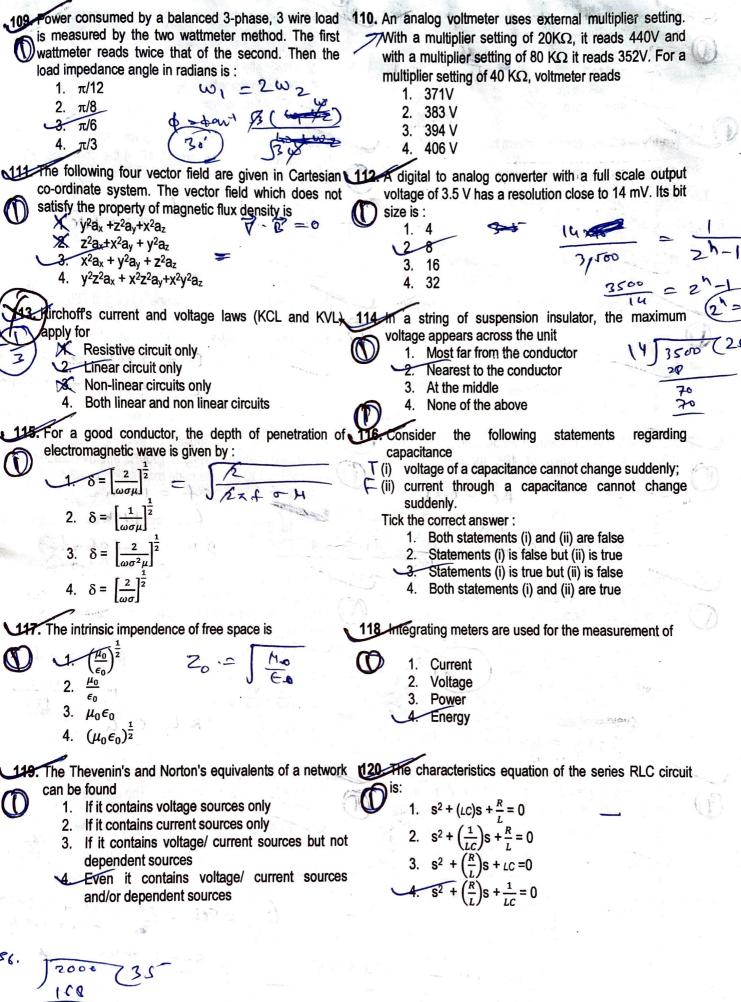












Control of the second of the s	
121. A second order control system exhibits 100% 122.	The following material used for making a piezoelectric transducer is:
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	Quartz Rochelle salt Barium titanate
3. Greater than 1 4. Equal to zero	All of the above
124.	A series L – C – R circuit has a resonant frequency f_0 , with R = 1Ω , L=1H and C=1F. If the components
$\frac{G(S)}{S^2(ST+1)}$	values are tripled, the new resonant
The order and type of the closed loop system will be : 1. 3 and 3	1. $3f_0$ 2. unaltered $\frac{1}{3}$ $\frac{1}{2}$ $\frac{1}{3}$ \frac
2. 2 and 3 3. 1 and 3	3. $\frac{f_0}{\sqrt{3}}$
4 3 and 2	4 10
125 The most essential condition for parallel operation of 126. two 1-Ø transformers is that they should have the	77()V. The percentage increase in field lidx for 9
same:	
1. KVA rating 2. Polarity	an induced emf of 250V at 700 rpm would be. 1. 42.4% $E = 220 \text{ U} \rightarrow 750 \text{ u/m}$ $2. 21.7\%$ $3. 11.25\%$ $E = 250 \text{ V} \rightarrow 750 \text{ u/m}$
3. Percentage impedance4. Voltage ratio	3. 11.25% E = 25.60 4. 7%
127. An OPAMP has a common mode gain of 0.01 and a 128	a frequency modulation system, maximum
differential mode gain of 105. Its common mode	frequency deviation allowed is 1000Hz and modulating frequency is 1 KHz. Determine modulation index β .
rejection ratio would be: $A_{C} = 0.01$	1. 2 = 1000H2
0 402	3. 1000 fm = 1 Kh2
2. 10^{3} 3. 10^{-3} 4. 10^{-7} Conta = $\frac{10^{5}}{10^{-2}}$ = 11^{7}) 4. 2000 Bow = 2 (of + fm)
129 A hollow metallic sphere of radius 'r' is kept at a 130	In a long transmission line with R, L, G and C are the
potential of 1 volt. The total electric flux coming out of the concentric spherical surface of radius R(>r) is	capacitance per unit length, respectively. The
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	condition for distortion less transmission is:
3. 4πεοR	2. RC = $\sqrt{\frac{L}{c}}$ $RC = \sqrt{\frac{L}{c}}$ $R = 1000$
4. None of the above	3. RG = LC 1000
9=cv= (1762)x1	4. $G = \sqrt{\frac{c}{L}}$ RLC α
131. A periodic voltage waveform observed on an 132 oscilloscope across a load is shown. A permanent	The figure, the value of resistor R is $(25 + 1/2)\Omega$ where I is the current in amperes. The current Lis
magnet moving coil (PMMC) meter connected across	1 10 Å →I
the same load reads	2. 20A \perp 200 \vee R (25 \pm I)
4. 4V 2. 5 V	3. 30 A 4 60 A
3. 8 V	6 2T 72 72 + SoI-(10=0)
4. 10 V	600 = 201 + 12 12 + 501-60=0 L2 + 301+204 - 300
Tx10x10-2x5+8	
7 × 10 × 10 = 20	
10 Page	Booklet Code-EE-8333
361 CANO	250 N2 02 325 27 X 27

