PAPER - II

ELECTRICIAN, ELECTROPLATER, LIFT MECHANIC / LIFT & ESCALATOR MECHANIC,

(WORKSHOP CALCULATION & SCIENCE) SEMESTER - III

TIME: 3 HRS.	MARKS: 75
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Note: Attempt all the questions.

All questions carry equal marks.

This paper carries negative marking. 25% marks will be deducted for each wrong

answer.

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Choo	se the correct answers.				
1.	Which of following is rule of indices? a) $x^a \div x^b = x^{a+b}$ c) $x^a \div x^b = x^{ab}$	b) $x^a \div x^b = x^{a-b}$ d) All of these			
2.	If the sum of roots are 12 and product of r		n will be		
	a) $x^2-10x+30=0$	b) $x^2-10x-30=0$			
	c) $x^2-30x+10=1$	d) None of these			
3.	Solve the factor of x^2 -36				
	a) $(x-6)(x+6)$	b) $(x-6)(x-6)$			
	c) $(x-6)(x-4)$	d) None of these			
4.	The value of roots for the equation $x^2-9x+20$ -				
	(a) (5,4)	b) (-5,4)			
	(c) (5,-2)	d) None of these			
	(0) (3, 2)	d) None of those			
5.	Divide $80x^{20}/80x^5$				
	a) $0.1x^4$	b) $0.1x^{10}$			
	c) $0.1x^{15}$	d) None of these			
6.	The time required to complete a revolutio	n is known as			
	a) Time period	b) Frequency			
	c) Amplitude	d) None of these			
	o) implicate	d) None of these			
7.	The ratio of resistance and impedance called				
	a) Inductance	b) Power factor			
	c) Amplitude	d) None of these			
8.	The number of revolution completed by a wave in a second is called				
	a) Frequency	b) Time period			
	c) Both (a) & (b)	d) None of these			
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9.	In alternating current I R.M.S. =				
	a) 0.707 I _{max}	b) 0.637 I _{max}			
	c) 2.3 I _{max}	d) 5.6 I _{max}			
10.	Peak value of alternating current can be _				
	a) Negative	b) Positive			
	c) Both (a) & (b)	d) None of these	created with		
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IO/PM	C/5-5/4/E			
11.	Τ			
11.	$I_{average} = $ a) 0.706 I_{max}	b) 0.637 I _{max}		
	c) 8.67 I _{max}	d) None of these		
	c) 6.07 Imax	d) 110110 01 th1000		
12.	The value of current at instant	in positive or negative period.		
	a) R.M.S. value	b) Instantaneous value		
	c) Less value	d) None of these		
	5) 22020			
13.	C = C1 + C2 + C3 + ? formu	ıla shows capacitors are		
	a) In series connection	b) In parallel connection		
	c) In compound connection	d) None of these		
14.		allel connection then resultant resistance will be-		
	a) 10 ohm	b) 20 ohm		
	c) 5 ohm	d) None of these		
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15.	Which is the best material for magnet?			
	a) Steel	b) Cobalt		
	c) Magnese	d) All of these		
16.	If two industry are connected in norall	al connection than regultent inductance will be		
10.	If two inductor are connected in parallel connection then resultant inductance will be			
	a) 5 Henry	b) 20 Henry		
	c) 100 Henry	d) None of these		
17.	The ratio of lateral strain to longitudin	al strain is		
	a) Poisson ratio	b) Stress		
	c) Strain	d) Compressive strain		
	o) Stan	d) Compressive strain		
18.	Factor of safety =			
	a) Real length / change in length	b) Lateral ratio / longitudinal stress		
	c) Ultimate stress / working stress	d) None of these		
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19.		ying a tensile force its length changes to 10.2 cm		
	then what will be the value of strain.			
	a) 8.6	b) 5.6		
	c) 3.6	d) None of these		
20	T1'4 - 6			
20.	The unit of magnetic motive force	h) Wehow/ourrows		
	a) Weber	b) Weber/ampere		
	c) Ampere turn	d) None of these		
21.	According to hook law in elastic limit	stress is to strain.		
41.	a) Directly proportional			
		b) Inversely proportional		
	c) Equal	d) None of these		
22.	1 bar = pascal.			
44.	1	b) 100		
	a) 100000	b) 100		
	c) 1000	d) None of these		
22	Absolute pressure = government			
23.	Absolute pressure = gauge pressure + a) 1 x Atmospheric Pressure	b) 2 x Atmospheric Pressure		
	c) 3 x Atmospheric Pressure	d) None of these		
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18/A/C/S-3/4/E

033/231, 035/233, 041/234

24. The atmospheric pressure is measured by-

a) Barometer

c) Hydrometer

b) Manometer

d) None of these

25. The pressure measured above the zero level is

a) Absolute Pressure

c) Both (a) & (b)

b) Guage Pressure

d) None of these

