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C16S-EE-506(B)

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BOARD DIPLOMA EXAMINATION, (C-16S)

NOVEMBER - 2019

DEEE - V SEMESTER EXAMINATION **ELECTRICAL UTILIZATION & MAINTENANCE**

[Total Marks: 80 Time: 3 Hours]

$3 \times 10 = 30$ PART - A Instructions: (1) Answer ALL questions. (2) Each question carries THREE marks. (3) Answer should be brief and straight to the point. Define the following. 1 3 Candle power. (a) (b) Luminous Flux. 2 Define glare and utilization factor. 3 List the requirements of good heating material. 3 3 State the advantages of electric heating. 4 3 Classify the different types electric welding. 5 3 List the conditions for successful welding. 6 3 List any six tools required for testing and repair of domestic 7 3 appliances. http://www.sbtetonline.com

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8	Draw	the electric	al wiring diagram of ceiling fan.	3	
9	State the need for preventive and periodical maintenance of electrical power devices.				
10	Write	e a brief not	e on air blast circuit breaker maintenance	:. 3	
			PART - B	10×5=50	
Insti	ructio	ns: (1)			
		(3)			
11			quirements of good lighting.	5 5	
12	A drawing hall 30m × 13m with ceiling height of 5m is to be 10 provided with general illumination of 120 lux. Taking co-efficient of utilisation of 0.5 and depreciation factor as 1.4, determine the number of fluorescent lamps required, their spacing, mounting height and total wattage. Luminous efficiency of 80 W fluorescent lamp is 40 1m/watt. Show the disposition of lamps with sketch.				
13	Explain the working principle, construction and operation of direct arc furnace with a neat sketch.				
14	(b)	What is indi	e applications of dielectric heating. uction heating? Explain the core type ating with a neat sketch.	5 5	
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15	(a) Explain the principle of operation of welding transformer with a neat sketch.			
	(b)	Explain about seam welding with a diagram.	5	
16	Explain the principle, construction, dismantling and assembling and repair work of electric oven.			
17		lain the principle, construction, dismantling and assembling repair work of mixie.	10	
18		he UPS/inverter. http://www.sbtetonline.com	10	

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