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VI Semester B.A./B.Sc./B.Com./B.B.A./B.B.A.T.T.M./B.B.A.R.T.M./B.B.M./
B.C.A./B.S.W./B.A. Afsal-Ul-Ulama Degree

(CCSS - Reg./Supple./Improv.)

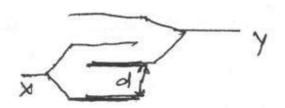
Examination, May 2016
Open Course
6D03 PHY: (C) ELECTRICITY IN LIFE
(2010 Admn. Onwards)

Time: 2 Hours

Max. Weightage: 20

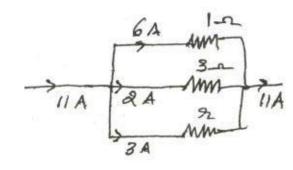
SECTION - A

- I. Answer all. Each question carries 1/4 W.
 - 1) The equivalent capacity between x and y in the figure is



- a) $\frac{\Sigma_0 A}{d}$
- b) $\frac{2\Sigma_0 A}{d}$
- c) $\frac{3\Sigma_0A}{}$
- d) $\frac{\Sigma_0 A}{zd}$

2) The value of resistor 'r' in the circuit is



- a) 2Ω
- b) 1Ω
- c) 3Ω
- d) 5Ω

	3)	The resistance of an incandescent lam a) Greater when switched off	1		vitched off	Name :
M.		c) Greater when switched on	d)	None of the a	bove	VI Sense
	4)	Siemen is the unit of a) Conductance b) Self inductance		Resistivity		inductance
11	5)	Choke is used to limit high frequency A	CH	nas		
	0,			Diamagnetic	core	
		c) Air core		Iron core		
	6)	The core of a transformer is laminated	to r	educed the		
		a) Copper loss		Magnetic loss		
		c) Eddy current loss	d)	Hysteresis lo	SS	
	7)	Fuse wire is made of material having _	dia.	meltin	g point.	
		a) High		Low		
		c) Both a) and b)	d)	None of the al	oove	
	8)	1 KWh isJoule.				
		a) 3.6×10^6	b)	2.8×10^{9}		
		c) 3.6×10^{10}	d)	None of the al	oove	$(2 \times 1 = 2)$
		SECTION	V-I	3		
A	ารพ	ver any six. Each question carries 1 W.				
		ate Joules law of electrical heating.				
- 22		nat is Ohms law?				
na Š		ate Faraday' laws.			n to outay a	
Territoria.		nat is a rectifier ?				
		ve the principle of eliminator.		0		
700		w to convert Galvanometers into an am	me	ter?		
- 3		nat is the principle of MCB?				
-30		ve the first aid for electric shock.				
7)	Wł	nat is UPS ?				
8)	Dis	stinguish between ceiling fan and exhau	st fa	an.		$(6 \times 1 = 6)$



SECTION-C

4 to be answered. Each question carries 2 W.

- 19) An electric heater is rated 2 kw. Find the cost of using it for 2 hours daily for the month of September, if each unit cost is Rs. 4.00.
- 20) A wire of resistance 40 ohm is bent in the form of a closed circle. What is the effective resistance between two points at the ends of any diameter of the circle?
- 21) Three resistance of 2Ω , 3Ω and 6Ω are connected
 - i) Series ii) In parallel.

Calculate the ratio of effective resistance of series and parallel combination of resistance.

- 22) A coil having a resistance of 20 Ω and inductance 20 Henry is connected to 120 V battery. Find the value of energy stored in the magnetic field when the steady state is reached.
- 23) With a neat diagram explain the operation of a cadmium Batteries.
- 24) Explain in detail care in Handling Electrical Appliances.
- 25) With a neat diagram explain the principle of operation and working of a single phase motor.
- 26) Discuss the growth and decay of current in an inductance circuit. $(4\times2=8)$

SECTION - D

Answer any one. Each carries 4 W.

- 27) With necessary theory explain the charging and discharging of a capacitor.
- 28) With necessary theory explain the principle and working of a transformer.
- 29) Derive an expression for the effective capacitance of a three capacitance connected in series. (1x4 = 4)