# Special Practice Exam No. 1 (2022-2023)

Section - A

itd.: 12'"	South.	340	<b>Physics</b>	a N. Revelled	A market con
		-	A REAL PROPERTY.	CARREST	

Q. I	NIC	Q (1	Mar	k Each)
			The second second	

- (a) 1.82 x 10<sup>-23</sup> Am<sup>2</sup>
- (b) 0.2mA
- iii) (d)  $\mu_i = 1 + \chi_n$
- iv) (b) 3741 J
- v) (b) 1:-1
- vi) (d) zero rad
- vii) (d) ohm-second
- viii) (c)  $\frac{4+F}{3+F}$
- ix) (d) moveo
- x) (b) Molten copper
- Given Data:- R=15 ohm ,v=0.6 m/s ,l=0.25 m B=0.35 T Q.2Formula:-Induced emf is c=Blv

ii) Given Data:-  $v_{max} = 6.28 \text{ cm/s} = 2\pi \text{ cm/s}$ 

Formula:-, 
$$\omega = \frac{2\pi}{\tau}$$
.  
 $A = \frac{Path\ Length}{2} = \frac{a}{2} = 4 \text{cm}$ 

$$V_{max} = A\omega$$

$$2\pi = 4 \times {2\pi \choose 2}$$

$$T=4 s$$

- iii) AND gate
- iv) Lorentz Force -Def-
- v) Fluid-Def-
- vi) Heat- Def-

Q.3

- vii) Diathermanous Sub-Def-
- viii) K=Radius of Gyration

#### Section B

#### Attempt any EIGHT of the following:

- Thomson's Atomic model-
- 1/2 mark for each Point
- 0.4Faraday's First Law of Electromagnetic induction:-Statement-Faraday's Second Law of Electromagnetic induction:- Statement-
- 0.5 R=6 mm, r = 1mm, Number of droplets n = ?

Formula- 
$$n = \frac{\frac{4}{3}\pi R^3}{\frac{4}{3}\pi r^3}$$

Substitution: 
$$n = \frac{6^3}{13}$$

- 10

1/2

26

# **Hsc Physics Paper 2answers**

J. Buultjens

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