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 $1 \text{ Wb/m}^2 \text{ is:}$ (a) 1.6 x 10⁻²⁶ N

(b) 1.6 x 10⁻¹² N

Name:

(For Information 03335126161 parhozone@gmail.com)

Roll No.

Subject

Physics

PARH	OZONE	Test Type	MSQs, Short & Long Que	stions	Class	12 th	Date				
HAR PAL,	HAR TOPIC	Chapter	14 Start to before CRO		Unit	14	Time				
		In .			90 0		2				
O. No.	1 Tick the	best opti	on					22			
1.		A STATE OF THE PROPERTY OF THE	a current carrying cond	luctor plac	ed in magn	etic field i	s that of:				
	(a) Magnetic		(b) Length of conductor	(A. 1987)	33.5	(d) \vec{L} .	3592				
2.			is doubled without chan	The state of the s		A CONTRACTOR		eld:			
	(a) Remains		(b) Become half		nes double		ur times				
3.	When an ele	ctron enters	at right angle to the mag	gnetic field	d, the magn	itude of ve	elocity is:				
	(a) Increase		(b) Decreased	(c) Remai	ins constant	t (d) No	one of these	e			
4.	The SI unit of	of permeabil	ity μ∘ is:								
	(a) Weber-m		(b) Weber/A.m	(c) Weber		(d) N/					
5.			s projected at acute angl					e particle will be:			
	(a) Straight l		(b) Circular	(c) Helica		(d) Pa	rabolic				
6.	The e/m of a	in electron c	an be calculated by usin	g the form	ula:						
	$(a)\frac{Vr}{Rr}$		$(b)\frac{2V}{R^2r^2}$	(c) $\frac{2Ve}{m}$		(d) $\frac{B^2}{2!}$	-2				
7.	DI		carrying current in oppositions B^2r^2	111	on	21	7				
7.	(a) Repel eac		arrying current in oppos		et each othe	r					
	(c) Cancel ed		offeet	(d) Do no		L					
8.	The unit of I		эдесі	(u) Do no	n cricci						
	(a) m/s^2		(b) m^2/s	(c) 1/ms		(d) m/	c				
0	8. 9.				li1		8				
9.		3)200	c force of 5N when a ch		17		v.				
	(a) 5 J		(b) Zero	(c) Non-z	ero	(d) 10	J				
10.	The Value o										
	(a) $1.75 \times 10^{11} \text{ c/kg}$ (b) $1.75 \times 10^{-11} \text{ c/kg}$ (c) $1.6 \times 10^{-19} \text{ c/kg}$ (d) Zero										
11.	The magnetic field inside a long solenoid, when current passed through it will be:										
	(a) Weak		(b) Strong	(c) Zero		(d) No	one				
12.	The magneti	ic field produ	aced by a current carrying	ng conduct	tor at a dista	ance "r" is	:				
	(a) $\mu_0 I / 2\pi r$	_	(b) 2πr / Iμ ₀	(c) 2π μ ₀		(d) I /2					
13.	Weber has the dimensions of:										
10.				(-) 37-14/-	2	(4) 17-	14				
	(a) Volt/sec	100	$(b) \frac{Volt^2}{sec}$	(c) Volt/s		(d) Vo		92 60 (220 D)			
14.	The magnetic force experienced by a charge particle is maximum when charge particle is projected at:										
747740	(a) $\theta = 0^{\circ}$ (b) $\theta = 45^{\circ}$ (c) $\theta = 90^{\circ}$ (d) $\theta = 180^{\circ}$ Which of the following particle moving in the magnetic field cannot be deflected:										
15.											
1.5	(a) Alpha particles (b) Beta particles (c) Electron (d) Neutron For a current carrying solenoid the terms "n" has units as:										
16.		t carrying so				(d) Na					
17	(a) m	a fallowing i	(b) 1/m s the equal to one Tesla	(c) $1/m^2$		(d) No	unit				
17.	(a) NA/m	e following i		: (c) KgA ⁻¹	g-2	(d) Kg	Λ σ-2				
18,		over an area	of 2 m ² which lies at ar					at flux will be			
				_		(d) 0.2		it flux will be.			
10	(a) 0.50 T		(b) 0.50 Web	(c) 0.25 v	veo	(a) 0.2	.31				
19.		One gauss is equal to: (a) 10^4 tesla (b) 10^{-4} gauss (c) 10^6 tesla (d) 10^{-4} tesla									
2.0	(a) 10 ⁴ tesla	//4	(b) 10 ⁻⁴ gauss	(c) 10^6 tes		89 350		3 3 4			
20.			$18\hat{k}$) Wbm ⁻² passes thro				7.0	ough the area is:			
21	(a) 90 T		(b) 90 x 10 ⁻⁴ Wb	(c) 90 Wł)	(d) Ze	ro				
21.			x to surface area belong			19.44.					
	(a) Wb/A m ²		(b) NA/m	(c) Tesla	B	(d) Al					
22.	The magneti	ic force on a	n electron moving with	speed 10 ⁷	m/s perper	ndicular to	the magn	etic field of strength			

(c) 1.6 x 10⁻¹³ N

(d) Zero



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Q. No. 2 Write the short answer of these following questions

 $3 \times 2 = 06$

- 1) What happened to the two long parallel wires carrying currents in opposite direction and same direction? Give reason?
- 2) Define the terms:(i) Magnetic induction
- (ii) Tesla.
- 3) What is Lorentz force? Write its mathematical expression.

Q. No. 3 Long question

- 1) State Ampere's law. Find out the magnetic field due to current carrying solenoid.
- 2) Determine (e/m) ratio of an electron. Derive its relation.



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