INTERM EXAMINATION 2022-23 CLASS- XII **SUBJECT- Physics**

I HALL	: SHES						
Instruc	tion:-						
(1)	All questions	are compulsory,					
(2)	(2) Q. No. 1 to 4 objective type questions each question carries 1 mark						
(3)	Q.No.5 to 12	are very short a	nswer type que	stion each quest	ion carrie		
	2 mark word	limit 30 words.					
(4) Q.No.13 to 1	6 are answer tyj	pe question eac	h question carri	es 3 mart		
	word limit 75	words					
(5) Q.No.17 is ar	alytical question	carries 4 mark	s word limit 120	words.		
(6) Q.No.18 to 1	9 are analytical	questions each	question carrie	s 5 mark		
	word limit 15	0 words,					
(7) Draw labelle	l diagram where	ver required				
Q.1 :		ect answer of the	_		(7)		
(1)	The specific	resistance of a w	ire depends on				
	(a) Length	(b) diameter		(d) material			
(2)	What is the u	nit of self induct	ance				
	(a) volt	(b) Ampere	(c) ohm	(d) Henry			
(3)		tween the equato	rial service and	electrical field I	ines is		
	` (a) 90	(b) 180	(c) ()	(d) 45			
(4)	The dielectric constant of a metal is						
	(a) infinity	(b) Zero	(c) one	(d) none			
(5)	Electric current is due to motion of (a) None of these (b)positive jons (c) free electrons (d) molecules						
	(a) None of t	hese (b)positive	jons (c) free	electrons (d) i	nolecules		
(6)	In moving change produces						
	(a) None of these (b) electric and magnetic field (c) only the magnetic field (d) only the electric field						
(2)	(c) only	the magnetic lie	ld (d) only the	electric field			
(7)	The phenomenon of electromagnetic induction was discovered by (a) Henry (b) fleming (c) Newton (d) Faraday						
0.2	(a) Henry		(c) Newton	(d) Faraday			
Q.2	Fill in the bl		((7)		
1-	The Dimensional formula of VLC						
2-	Sound of waves are waves						
3-	The electromagnetic waves are waves 1 weber = 1 maxwell.						
4-	weber =	maxwell.					

	•			•			
	CGS unit of magnetic flux is The RMS value of alternating to		times of its p	eak value.			
5-	ALL DATE CALLE OF ARCTIONS		15				
6-	St unit of pole strength	. "		(7)			
7-	Match the following:		4				
Q.3			Column B				
	Column A	1-	A Rontegen	rov			
I-	Infrared rays	2-	Conservation of ene	· 6V			
2-	X-ray Capacitance reactance for DC	3-	Roentgen '				
₹3-	Capacitance reactions	·I-	Zero .				
1.	Moving coil galvanometer	5-	Infinity				
5-	The waves used to kill germs	6-	Magnetic effect of c	urrent 😗			
6-	Minimum energy for electron						
	emission	7-	harschel				
7	Kirchoff's second law	·		(7)			
Q.4	Give one word/ one sentence.	· alimale	moment.				
1-	What is the direction of electric	i.	•				
2-	What is the caracitance of earth.						
3-	Phone watch principal dose transformer work.						
.4-	Write the SI unit of intensity of	i	anion object in fog.				
5-	Name the radiation useful for s	eemg a	sance inject in the	nown as.			
6-	The force acting on change par	ticle iii	and the minute with the				
7-	What is the unit of specific resi	istance.	•	(2)			
Q.5	What is current write its unit.			(-,			
	° OR ,		•				
	What is electric conductance it	's unit?	;	(2)			
Q.6	What is potential?			(2)			
	OR			•			
	two equipotential surface does	not inte	rsect each other why?				
Q.7	State ampere's circuital law?			(2)			
	OR						
	Vector form of biot savarts law	?	•	. , 1			
Q.8	Write any two difference between	een self	inductions? - i - 1 - 1	1: 1: 1			
•	OR						
•	A spark is produced when electrical circuit is used off suddenly why?						
Q.9	capacitor stop DC why?			(2)			
4	OR	•		, ,			
	Transformer work with AC sup	ply but	not with DC why?				
, Q.10	Two electric lines of force neve		_	(2)			
•				(~/			
	• •						

	•						
	metallic rope's are attached with the vehicles carrying inflat substance connected to earth why?	nmable					
0.11	What is drift velocity.	(2)					
Q.11	OR n						
	What is ohm's law						
Q.12	difference between diamagnetic substance paramagnetic substan	nce and					
Ų.12	ferromagnetic substance.	(2)					
	OR	` ,					
	Write the properties of magnetic lines of forces:						
Q.13	drive the expression for the intensity of electric filed on the equatorial						
`	position of the dipole.	(3)					
	OR	` '					
	Derive expression for parallel plate capacitor.						
Q.14	The storage battery of a car has an EMF of 12 voltage if the internal						
	resistance of the battery 0.4 ohm what is the maximum current that can						
	be drawn from the battery.	(3)					
	OR						
	compare the resistance of two bulb of 50 watt 200 watt if they are	e same					
0.16	voltage. https://www.mpboardonline.com						
Q.15	difference between resistivity and resistance.	(3)					
	OR						
Q.16	Establish relation between current and drift velocity.						
Q.10	A long Straight wire carries a current of 35 ampere, what	is the					
	magnitude of the magnetic field at 20 cm from the wire. OR	(3)					
A 15	Why an ammeter is connected in series in an electric circuit.						
Q.17	difference between resistance, impedance and reactance. OR	(4)					
	Give difference between step up and step down transformer.						
Q.18	Describe the transfer on the basis of following points	(5)					
	(1) Labelled diagram (2) principal	(5)					
	(3) formula for transformation ratio						
	(4) any two reason of energy loss in transformer OR						
	drive and expression for self inductance of a solenoid, on what does it depend.	factors					

Q.19 explain the series LCR circuit under the following heads. (5)

(1) Resultant voltage

(2) impedance of circuit

(3) frequency of resonance

OR

What is dynamo? Draw labelled diagram and describe working of AC dynamo.

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