Num	r Code ber:	INTERMEDIATE I	2024 PART-II (12 <sup>th</sup> Cla	ass)	Roll No:	
РНУ	SICS PAPER	R-II MODEL PAPER			1	
TIM	E ALLOWED: 2	20 Minutes	OBJECTIVE	C M	AXIMUM MARK	S: 17
Q.No	correct, fill th	ir choices for each objective hat bubble in front of that qu ting or filling two or more bu	uestion number, or	n bubble s	sheet. Use marker of	
S.#		QUESTIONS	A A	n zero ma	C	D
1	If a charged particle + " $q$ " of mass " $m$ " is projected parallel in an electric field E, the acceleration:		Zero	qE / 1	m qEm	m / qE
2	The electric flux t enclosing charge	Geometry of the surface	Charg enclosed the surf	d by in which	Both B & C	
3	If no fourth band the tolerence will:	is present on a carbon resistor,	± 5%	±10%	6 ± 20%	0%
4	In C.R.O to displato:	y the given voltage is connect	X-plates	Y-plat	es Cathode	Anode
5	The galvanometer give	consist of a moving coil en by:	BAN/C	BN/C	A NAC/B	C/BAN
6	The direction of in by:	nduced current is determined	Ohm law	Farada law		Gauss's lav
7	For A.C inductor	behaves like:	Capacitor	Thermi	stor Rectifier	Resister
8	The phase angle b through resistor in	etween voltage and current a A.C circuit is:	0 degree	45 deg	ree 90 degree	180 degre
9	Metal detector con	nsist of:	L-C circuit	R-C cir	cuit R-L circuit	RLC-circu
10	High temperature temperature greate	super conductor have a critica er than:	ıl 52K	77K	125K	163K
11		plifier as a comparator when t the output, we get:	Vo = +Vce	<i>Vo</i> = -1	Vcc $Vo = 0$	Vo = infini
12	The S.I unit of cur	rrent gain are:	Ampere	Gray	y Ohm	No unit
13	The reverse proce	ss of photoelectric effect is:	Compton's effect	Pair product		X-rays
14	Which photon of light has least energy?		Green	Yello	w Blue	Red
15	The shortest wave a wavelength:	length in bracket series has	364 nm	1457 n	um 1876 nm	infinity
16	Co-60, radioactive isotope is the source of:		Alpha-rays	Beta-ra	ays Gamma rays	Neutrons
17	The biological off	ects of radiation are of:	Two types	Four ty	pes Six types	Ten types

3

TIME ALLOWED: 2.40 Hours         SUBJECTIVE         MARINUM MARKS           NOTE:         Write same question number and its parts number on answer book, as given in the question pr SECTION-I         8 ×           10         How you can identify that which plate of capacitor is positively charged?         8 ×           101         How to similarities between electric force and gravitational force?         8 ×           (ii)         Write toos initarities between electric force and gravitational force?         9           (vi)         When obser the picture on T.V screen beome distorted when a magnet is brought near the screen?         9           (vii)         Does a uniform magnetic field affect the K.E of an electron projected perpendicular to uniform magnetic Septain.         10           (viii)         Does a uniform magnetic field affect the K.E of an electron projected perpendicular to use of current? Explain.         11           (viii)         Write down the fission reaction difficul tachieve?         12           (viii)         Does the picture on the other yet which an alpha particle does ionize an atom.         8 ×           (viii)         Describe in a wire affect its electrical resistance? Explain.         10           (viii)         Does the picture on connected in parallel with the source of enf of 10.0, What amount of current?         10           (viii)         Describe in a wire affect its electrical resistance? Explain.         10 <th></th> <th>RMEDIATE PART-II (12<sup>th</sup> Class)</th> <th>MODEL</th> <th>2024</th> <th>Roll No:</th> <th></th>		RMEDIATE PART-II (12 <sup>th</sup> Class)	MODEL	2024	Roll No:				
NOTE:       Write same question number and its parts number on answer book, as given in the question preserved.         2. Attempl       y eight parts.       SECTION-1       S ×         (i)       How many joules in an electron vol?					MAXIMUM MADES.	68			
SECTION-1           X Attempt $\leq$ oright parts.           SECTION-1           OPENDESCIPE           UPENDESCIPATION FOR TABLE SECTION-1           SECTION-1           SECTION-1           SECTION-1           OPENDESCIPATION FOR TABLE SECTION-1			and the second se						
<ul> <li>2. Attempt ≤ y eight parts.</li> <li>(i) How you can identify that which plate of capacitor is positively charged?</li> <li>(ii) How many joules in an electron vol?</li> <li>(iii) Write two similarities between electric force and gravitational force?</li> <li>(iv) Define optential gradient. Write its 51 unit.</li> <li>(vi) Why does the picture on a T.V screen become distorted when a magnet is brought near the screen?</li> <li>(vii) When charged particle is projected perpendicular to the magnetic field. How many joules work is do magnetic force on the charged particle?</li> <li>(viii) Does a uniform magnetic field affect the K.E of an electron projected perpendicular the uniform magnetic force on the charged particle?</li> <li>(viii) If the resistance of Ammeter is high can it measure the accurate value of current? Explain.</li> <li>(x) Write down the fission reaction difficult tachieve?</li> <li>(xi) What factor make a fasion reaction difficult achieve?</li> <li>(xii) What factor make a fusion reaction difficult achieve?</li> <li>(xii) What factor make a fusion reaction difficult achieve?</li> <li>(xiii) Doesn's na wire affect its electrical resistance? Explain.</li> <li>(xii) How you will compare the emf's of the two cells by using potentiometer?</li> <li>(iii) How resistances each of 20 are connected in parallel with the source of ent of 10v. What amount of cr be supplied each resistance by the source of ent?</li> <li>(v) Which is better device to limit the current choke and Rhoostat why it better?</li> <li>(vi) Compare the frequency behaviour in a Resister and capacitor in a A.C. Circuit.</li> <li>(viii) Suppose we have the substance which became super conductor at 42K, 125K and 163 K. Which is comparatively more useful?</li> <li>(xii) Suppose we have the substance which became super conductor at 42K, 125K and 163 K. Which is comparatively more useful?</li> <li>(xii) Write down amplifier? Why it is so called?</li> <li>(xii) Write down amplifier? Why it is so called?</li> <li>(xii) Write we cand the</li></ul>		write same question number and its			i, us given in the question pa	<u></u>			
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<ul> <li>(iii) Write two similarities between electric force and gravitational force?</li> <li>(iv) Define potential gradient. Write its 51 unit.</li> <li>(v) Why does the picture on a T.V screen become distorted when a magnet is brought near the screen?</li> <li>(vi) Does a uniform magnetic field affect the K.E of an electron projected perpendicular the uniform magnetic force on the charged particle?</li> <li>(viii) Does a uniform magnetic field affect the K.E of an electron projected perpendicular the uniform magnetic field affect the K.E of an electron projected perpendicular the uniform magnetic screen the charged particle?</li> <li>(viii) If the resistance of Ammeter is high can it measure the accurate value of current? Explain.</li> <li>(viii) Describe two methods by which an alpha particle does ionize an atom.</li> <li>3. Attempt any eight parts.</li> <li>8 ×</li> <li>(i) Does the two enthols by which an alpha particle does ionize an atom.</li> <li>3. Attempt any eight parts.</li> <li>(ii) How you will compare the emf s of the two cells by using potentiometer?</li> <li>(iii) Two resistances each of 20 are connected in parallel with the source of emf of 10v. What amount of cu be supplied each resistance? Is 20v. What is is peak to peak to peak value?</li> <li>(v) The peak value of afternating voltage is 20v. What is is peak to peak to peak value?</li> <li>(vii) Which is better device to limit the current choke and Rheostat why it better?</li> <li>(vii) What is operation of making LED's?</li> <li>(viii) Group and the S.I unit of modules of elasticity and stress are same.</li> <li>(viii) Mrit dougn. What is proportion of impurity in the doping process?</li> <li>(viii) Writ wo similarities between motor and generator.</li> <li>(viii) Mrit dougn. What is proportion of impurity in the doping process?</li> <li>(viii) Mrit dougn. What is the difference between super conductor at 42K, 125K and 163 K. Which is comparatively more useful?</li> <li>(vii) Mrit two similaritis between motor and generator.</li> <li>(vii</li></ul>			f capacitor is	positively charged	1?				
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