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Name:

Test Type

Chapter

(a) Large wastage of energy

(c) No wastage of energy



MCQs, Short & Long question

17 Intrinsic Semiconductor to End



Roll No.

Class

Unit

(For information O3335126161 parhozone@gmail.com)

12

17

Subject

Date

Time

Physics

. No	D. 1 Tick the best op Magnetism lags behind		at. This phenomenon is ca	22 lled:				
	(a) Saturation	(b) Retentivity	(c) Coercivity	(d) Hysteresis				
	A device used to detect very weak magnetic field produced by brain is named as:							
2.	(a) MRI	(b) CAT scans	(c) Squid	(d) CRO				
١.	. NO.	Germanium lattice will be:						
•	(a) Phosphorus	(b) Aluminum	(c) Gallium	(d) Arsenic				
	The superconductor fo	3 5	(c) Sumain	(d) Anseme				
	(a) YBa ₂ Cu ₃ O ₇	(b) YBa ₂ Cu ₂ O ₄	(c) YBa ₂ CuO	(d) YBa ₂ Cu ₇ O ₁₁				
	Minority carriers in p-t		(c) 1 Bu ₂ Cu O	(a) 12a2ca7011				
•	(a) Holes	(b) Electrons	(c) Proton	(d) Positron				
	Powerful magnets are	7. 7	(c) Froton	(d) I oshron				
7. 7.	(a) Alnico	(b) Cobalt steel	(c) Cobalt	(d) Aluminum				
	In the doping process, the ratio of the doping atoms to the semi-conductor atom is:							
	(a) 1 to 10^2	(b) 1 to 10^4	(c) 1 to 10^6	(d) 1 to 10 ⁸				
3.	The critical temperatur	7. 2	(c) 1 to 10	(d) 1 to 10				
	(a) 1.18 K	(b) 4.2K	(c) 3.72 K	(d) 7.2 K				
).	and the second second	belongs to accepter im	A. A. Carrier and C.	(d) 7.2 K				
	(a) Arsenic	(b) Aluminum	(c) Phosphorus	(d) Antimony				
0.	A Comment of the Comm	ibit superconductivity at	Part Self Control of the S	(d) Antimony				
10.		(4) 30 K						
4	(a) 0 °C (b) 125 K (c) 60 K (d) 30 K Domains contains nearly atoms:							
1.	(a) $10^8 - 10^9$	(b) $10^8 - 10^{12}$	(c) $10^{12} - 10^{14}$	(d) $10^{12} - 10^{16}$				
	C. 30120 10500 20000	No. Comment and the second		(a) $10^{-4} - 10^{-4}$				
 3. 	Which of the following	(d) Stool						
	(a) Copper	(b) Zinc	(c) Soft iron	(d) Steel				
•	The temperature, where iron becomes paramagnetic is called: (a) Critical temperature (b) Curie temperature (c) Neel's temperature (d) Room temperature							
		(d) Room temperature						
٠.		tivity of the semiconduc		(1) E' 1				
	(a) Increase	(b) Decrease	(c) Remains constant	(d) First Increases then decrease				
	The resistance of merc							
	(a) 4.2 K	(b) Above 4.2 K	(c) Below 4.2 K	(d) 7.2 K				
	Chromium dioxide is:							
	(a) Paramagnetic	(b) Ferromagnetic	(c) Diamagnetic	(d) All of these				
	Superconductor substa		HARIL	JPIC				
	(a) Ferromagnetic	(b) Paramagnetic	(c) Diamagnetic	(d) Ferrimagnetic				
		g has the least hysteresis						
	(a) Steel	(b) Wrought iron	(c) Soft iron	(d) Cobalt				
9.	Curie temperature for i	ron is:						
	(a) 0K	(b) 570 K	(c) 1023 K	(d) 378 K				
.0.	Technological application of superconductor is:							
	(a) Microwave oven	(b) Logic gates	(c) Transistors	(d) MRI				
21.	A 1m long copper wire is subjected to stretching force and its length increases by 20 cm. The tensile strain							
	(a) 20	(b) 0.02	(c) 0.50	(d) 0.20				
	Large area of hysteresi	1	NO. 189	A2 126/II				

(b) Small wastage of energy

(d) None of these



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

 $4 \times 2 = 08$

- 1) Distinguish between crystalline, amorphous and polymeric solids.
- 2) Write a short note on superconductors.
- 3) What is meant by Para, Dia and Ferromagnetic substances? Give example for each.
- 4) What is meant by hysteresis loss? How is it used in the construction of a transformer?

Q. No. 3 Long question

5 + 3 = 08

- (A) What are intrinsic and extrinsic semiconductors? How the p-type and n-type materials are formed?
- (B) A 1.25 cm diameter cylinder is subjected to a load of 2500 kg. Calculate the stress on the bar mega Pascals?



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