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Name:

Test Type

MCQs, Short & Long question

17 Start to before Intrinsic



Roll No.

Class

(For information O3335126161 parhozone@gmail.com)

12

Subject

Date

Physics

The state of the s	L, HAR TOPIC	Chapter	17 Start to before Into Semiconductor	rinsic	Unit	17	Time		
Q. No.	. 1 Tick the	best option	on					22	
1.	Examples of								
	(a) Plastic		(b) Zirconia	(c) NaCl		(d) Wa	ax		
2.			tress to the volumetric						
	(a) Bulk mod		b) Young modulus	(c) Shear			odulus of el	lasticity	
3.			the charge carriers in						
	(a) Increases		(b) Decreases	(c) Remai	ns constant	(d) Inc	crease then	decrease	
4.	The dimensi			SA NO SANGGARANCO AND	norwen				
	(a) $[MLT^{-1}]$		(b) [ML ⁻¹ T]	(c) [ML ⁻¹	Γ^{-1}]	(d) [M	$[L^{-1}T^{-2}]$		
5.			nductor materials (Si/	(0)					
	(a) Conducto		(b) Semiconductor	(c) Insulat	or	(d) Al	l of these		
6.		March 1	sides meet at:						
	(a) acute ang		b) Obtuse angle	(c) Right a	angle	(d) 45°	5		
7.			conductivity of the or						
	(a) $10^{-7} (\Omega m)$		(b) $10^7 (\Omega \text{m})^{-1}$	(c) $10^{2}(\Omega$	The same of the sa		$^{-2}(\Omega \mathrm{m})^{-1}$		
8.		ss on heatin	g gradually softens int	to a paste like	e state at al				
	(a) 600 °C		(b) 700°C	(c) 500 °C		(d) 80	ე ° C		
9.	Natural rubb	er has the fo	rmula:		1				
	(a) $(C_2H_4)_n$		(b) $(C_3H_5)_n$	(c) (C_5H_6)	n /	(d) (C.	$_{4}H_{6})_{n}$		
10.	The maximu	m stress that	a material can with s	tand:					
	(a) Proportio	onal	b) Plastic stress	(c) UTS		(d) Al	l		
11.	Tensile strain	$n(\varepsilon)$ is:							
	$(a) \frac{\Delta L}{L}$		(b) $\frac{\Delta V}{V}$	$(c)\frac{\Delta a}{a}$		(d) tar	ι θ		
12	L	The S. I unit of stress is similar to:							
12.	(a) Force			(a) Mama	m tuum	(d) D _m			
13.			(b) Energy	(c) Mome		(d) Pre	essure		
15.			es in crystalline solids		The state of the s	(3) 44			
1.4			b) γ —ray technique	(c) X-ray	technique	(d) At	omic specti	roscopy	
14.			ive permissible band t			(4) T-		. 4	
15	(a) Conducti		(b) Fermi band	(c) Valance	ce band	(a) Fo	rbidden ba	na	
15.	The reciproc			(a) Camara	!1.!1!4	(4) CL			
16	(a) Elasticity		b) Young's modulus	38 (0)	ressibility	(a) Sn	ear modulu	IS	
16.			nductivities ranging b		10-4 (0)	1 / 1) NT	C +1		
17			b) 10 ⁻⁴ to 10 ⁻¹² (Ωm) ⁻¹						
17.		0.000	gap between the con		varance bar			r is of the order of:	
10	(a) 5eV		(b) leV	(c) 50eV		(d) 10	Jev		
18.		e rollowing i	s most ductile?	() (Adam	(1) TT	1	. 1	
10	(a) Glass	a.	(b) Cast iron	(c) Coppe	(d) High carbon sto	steel			
19.	Valance ban		R PAL	(b) Contains no valance electrons					
	[[[[[] [[] [[] [[] [[] [] [[] [] [] [] [
20	(c) Highest occupied band Energy band theory is based on:			(d) Lowest occupied band					
20.				(b) Quantum model					
	(a) Wave Mechanical model								
21	(c) Wave relativistic model (d) None of these								
21.	Which pair of quantities has same dimensions?								
	(a) Stress, po			N. 17	re, bulk mo				
	(c) Stress, str		2	(d) Strain,	strain ener	gy			
22.	Which stater	nent is corre	ct?		ğ. 2				
	(-) Lil (- ' - ' - ' - ' - ' - ' - ' - ' -	the Albert	and a second sec	and the latest the state of the					

(a) Elasticity is that property of body which enables body to regain its original dimension

(c) Elasticity is that property of a body that allows it to retain its original shape and dimension after the stress

(b) Elasticity is that property of body does not allow it to return its original shape

(d) Elasticity is that property of a body that obeys Hook's law

is removed



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

 $4 \times 2 = 08$

- What is meant by Polymeric solids? Why they are important? 1)
- What is difference between ductile and brittle substances? 2)
- 3) Distinguish between valance and conduction band.
- 4) Describe energy band picture of semiconductor.

Q. No. 3 Long question

1) What is meant by strain energy? Derive the relation for strain-energy from force extension graph?



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