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APPLIED PHYSICS-II 2nd Exam/Common/2753/Jun'2022 (For 2018 Batch Onwards)

(For 2018 Batch Onwards)					
Durati	on: 3Hrs.	M.Marks:75			
	SECTION-A				
Q1. a)	Fill in the blanks.	15x1=15			
	i. SI unit of magnetic field is				
	iband of insulators is completely filled.				
	i. The base of the transistor isdoped.				
	Output of He-Ne Laser is awave.				
	are the majority charge carriers in p-type semiconductors.				
-	State True or False.				
	i. Refractive index of vacuum is 1.				
	i. On doping, the conductivity of the semiconductor decreases.				
	i. 1 picofarad is a bigger unit than 1 nanofarad.				
	x. A wheatsone bridge is used to determine resistance.				
	 A charge at rest experiences no magnetic force. Multiple Choice Questions. 				
•	i. The velocity of sound is maximum in a)water b)air c)steel	d)vacuum			
	i. The radius of curvature of a plane mirror is	ujvacuum			
٨	a) 0 b) between 0 and 1 c) varies from surface to surface	d) infinite			
хi	i. Which of the following is not a unit of magnetic induction? a) Gauss b				
7.1	Weber/m ²	,			
хi	v. Which of the following is not a semiconductor? a) Au b) Si c)	Ge d) TI			
	Which of the following is a paramagnetic substance?	,			
	a)Bismuth b)Antimony c)Water d)Chromium				
	CECTION D				
O2 4+	SECTION-B	6vE 30			
	tempt any six questions. What is the difference between light waves and sound waves?	6x5=30			
	What is the difference between light waves and sound waves? What is Total Internal Reflection? Give essential conditions for its observa	ation			
C.					
	What are the different types of charge distributions?	conductor.			
e.	Write down Faraday's laws of electromagnetic induction.				
f.	Define specific resistance of a conductor.				
g.	Differentiate between intrinsic and extrinsic semiconductors.				
h.	Write a short note on Optical Fibre Communication.				
	SECTION-C				
Attem	ot any three questions.	3x10=30			
Q3. a)	What are the characteristics of LASER Light.				
	Find equivalent resistance when 3 resistances are connected in series.				
Q4. a)	What is Simple Microscope? Find expression for its magnifying power.				
b)	What are the properties of electric lines of force?				
Q5. a)	Differentiate between Electromotive force (e.m.f.) and potential differenc	e.			
	f length and area of cross-section of a conductor are doubled, find the net	$resistance\ of\ the\ conductor.$			
	plain the principle, construction and working of moving coil galvanometer.				
Q7 . Ex	plain the working of p-n junction diode in detail.				