NOTE: Four possible answers A, B, C and D to each question are given. The choice which you think is correct, fill that circle in front of that question with Marker or Pen ink. Cutting or filling two or more circles will result in zero mark in that question. 12 11. Waves transfer: ı. (D) Velocity (C) Wavelength (B) Frequency (A) Energy For a normal person, audible frequency range for sound wave lies between: 2. (D) 30Hz -- 30kHz (C) 25Hz -- 25kHz (A) 10Hz -- 10kHz (B) 20Hz -- 20kHz The index of refraction of Ice is: (D) 2,42 (B) 1.31 (C) 1.00 (A) 1.52 Image formed by a camera is: 4. (B) Virtual, Upright and Diminished (A) Real, inverted and Diminished (C) Virtual, Upright and Magnified (D) Real, Inverted and Magnified A positive electric charge: (B) repels other positive charge (A) attracts other positive charge (D) repels a neutral charge attracts a neutral charge The combined resistance of two identical resistors, connected in series is 8Ω . Their combined 6. resistance in a parallel arrangement will be: (D) 12Ω (A) 2Ω $(C) 8\Omega$ (B) 4Ω The unit of electric power is: C) Joule (D) Volt (B) Ampere (A) Watt 8. An example of mutual induction is: (D) Relay (B) D.C. Motor (C) Transformer (A) A.C. Generator 9. The particles emitted from a hot cathode surface are: (D) Electrons (A) Positive ions (B) Negative ions 10. The brain of any computer system is: (D) Control Unit (A) Monitor (B) Memory (C) C.P.U Which of the following is not processing? (D) Gathering (B) Manipulating (A) Arranging (C) Calculating When a heavy nucleus splits into two lighter nuclei, the process would: (B) Absorb Nuclear Energy (A) Release Nuclear Energy

(C) Release Chemical Energy

(D) Absorb Chemical Energy

Ro	ll No.(i	n Figures):	(in Words)	:			
Ma	ximum	Marks: 48 SUBJECTIVE	TYPE	Time Allowed :1.45 Hour			
	,	(PART-	· I)				
Q2.	and the control of th						
	(i)	Define Amplitude.					
	(ii)	Define Restoring Force.					
	(iii)	What is meant by Silent Whistle?	7				
	(iv)	What is meant by Zero bel?					
	(v)	Calculate the frequency of a Sound Wave of speed 340ms ⁻¹ and Wavelength is 0.5m.					
	(vi)	Define Ampere, the unit of current.					
	(vii)	State Joule's law.		marché pagini.			
	(viii) Define Unit of resistance.	41, 7				
Q3.	Write	short answers to any FIVE (5) questions.		(5×2=10			
	(i)	State Laws of Refraction.					
	(ii)	Define Power of Lens.					
	(iii)	What is variable Capacitor?					
	(iv)	Define Dielectric.		400			
	(v)	What are the Hazards of Static Electricity?		A 6			
	(vi)	What is meant by Cell Phone?		1 108			
	(vii)	What is Flash Drive?		" if we'll see " see			
	(viii		\$ 20 m				
24.	Write short answers to any FIVE (5) questions. (5×2:						
	(i) Describe the method to find the direction of Magnetic Lines of Force produce by						
		Carrying Solenoid.	.60	W. 18			
	(ii)	Write the factors on which the Magnitude of	f Induced emf d	lepend.			
	(iii)	Name two factors which can enhance Therr					
	(iv)	Write the name of components of Cathode I		*CSE1			
	(v)	How can you compare the logic operation >	X = A.B with us	ual operation of Multiplication?			
	(vi)	Define Natural Radioactivity.					
	(vii)		55				
	(viii)			tions that are taken against them.			
		(PART -	II)				
		pt any TWO questions.	was an aarriara	(2×9=18)			
υ.	 (a) Define wave Motion. Expolain with example "Waves as carriers of Energy". (b) An object 30cm tall is located 10.5cm from a concave mirror with focal length 10. 						
	i. Where is the image located? ii. How high is it?						
16.		/hat is gold leaf Electroscope? Discuss its wor					
.5125/00		a current of 0.5A passes through a bulb con					
		en find the rate of energy transferred to the bu					
17.		9? 4					
	(b) Cobalt - 60 is a Radioactive element with half life of 5.25 years. What fraction of the ori						
3	SZ	ample will be left after 26 years?	(A)	5			

NOT	E:Four possible answers A, B, C and D to ea correct, fill that circle in front of that que more circles will result in zero mark in that	stion with Marker or Pen	마이지는 이 글 하면 않는 이 그리고 하게 하는 사람들은 사람들은 아이들이 하는 것이 되었다. 남은 이 나는 모네다.				
Q1.	1400 - No. 1		12				
1.	In a vacuum, all electromagnetic waves ha	ive the same:					
	(A) Speed (B) Frequency	(C) Amplitude	(D) Wavelength				
2.	Which type of image is formed by a convex lens on a screen?						
	(A) Inverted and Real	(B) Inverted and virtual					
	(C) Upright and Real	(D) Upright and Virtua					
3.	Wave theory of light is formulated by:						
	(A) Newton (B) Faraday	(C) Maxwell	(D) Bell				
4.	For a normal person, audible frequency range for sound wave lies between.						
27	(A) 10Hz - 10kHz (B) 20Hz - 20kHz	(C) 25HZ - 25kHz	(D) 30Hz - 30kHz				
5.	Two small charged spheres are separated by 2 mm. Which of the following would produce						
100	the greatest attractive force?	- Wile - Wile - 4					
	(A) + 1q and +4q (B) -1q and -4q	(C) +2q and +2q	(D) +2q and -2q				
6.	If the current in a wire which is placed perpendicular to a magnetic field increases, the force						
	on the wire:	***************************************	45" - 20" -				
	(A) Increases (B) Decreases	(C) Remains the Same	(D) Will be zero				
7.	What happens to the intensity or the brightness of the lamps connected in series as more and						
	more lamps are added?						
	(A) Increases (B) Decreases	(C) Remains the Same	(D) Can not be predicted				
8.	Electric power (P) is equal to:	*0-	the fire are a law a				
	(A) I ² V (B) IV ²	(C) I ² R	(D) IR ²				
9.	The particles emitted from a hot cathode	surface are:	2.00 = . 00 (2) P				
	(A) Positive ions (B) Negative ions	(C) Protons	(D) Electrons				
10.	One of the Isotopes of uranium is 238 U. The number of neutrons in this isotope is:						
	(A) 92 (B) 146	(C) 238	(D) 330				
11.	The basic operations performed by a computer are:						
<u></u>	(A) Arithmetic Operation		peration				
	(C) Logic Operation	(D) Both A and C					
12.	Which of the following is not a storage de						
4	(A) Hard Disk (B) Flash Drive	(C) Keyboard	(D) Casettes				

Rol	l No:(in	Figures):		(in Words):	
		Marks: 48	SUBJECTIVE		Time Allowed :1.45 Hours
IVI 24	ximum	Marks. 40	(PART-		Time Allowed Tree Issues
		2 5 to 15 to		1)	(5×2=10)
Q2.			any FIVE (5) questions.		(3×2=10)
	(i)	Define Mechan		of Alle and W	(avalance) of 0 4m. What is the
	(ii)			y or 4mz and w	avelength of 0.4m. What is the
	/1115	speed of the wa			
	(iii)		Give its an example.	The I was	
	(iv)		o advantages of SONAR. ecessary conditions for the p	roduction of Sou	and?
	(v)		ational Current.	roduction of soc	in a faction of a refer
	(vi)		nce and write its unit.	2 to 10 to 1	A STATE OF STATE OF
	(vii)				and the feet of the
00	(viii)		2011)		(5×2=10)
Q3.			any FIVE (5) questions. le Axis and Focal Length.	ar isk Tile is	(0,22-10)
	(i)		by Total Internal Reflection)	of American Street
	(ii)	What is Endos	20 10 10 10 10	P	And a contract of the second
	(iii)	# Total and the same and the sa	of Capacitors.		THE STREET
	(iv)		it of Capacitance? Define it.	•	11 - 15 - 12 - 1 - 11
	(v)		by information and Commun		loov?
	(vi)		two essential parts of any Co		
	(vii)			minumeation sy	Taken Trans
04	(viii)			0.	(5×2=10)
Ų4.			any FIVE (5) questions.		[0/L-10
	(i)		magnetic Induction. etween Generator and a Mot		
	(ii)		of the components of CRO		1 4 6 1 2/16
	(iii)		7.53		
	(iv)	Define Boolea	by Thermionic Emission?		6
55	(v)		ound Radiation.	1 6	T
	(vi)		etween Atomic Number and	Atomic Mass N	umber
	(vii)		racteristics of Gamma Rays.	Promie mass in	
	(VIII)) Wille two chai	(PART	TT\	
		-1 TWO		11,	(2×9=18)
		ipt any TWO ques		nla Harmania M	
Q5.			of a Simple Pendulum is Sim		강 (M. B.) (M. C.) (15) 15(1) (15) (15) (15) (15) (15) (15) (15
				orms an image c	5.0cm behind the mirror. What is
	120-200702	he Focal Length o			va 1,47 ± 1 ± 1.0 ± 5
Q6.			Electroscope? Discuss its wo		
	(b) If two resistors of $6k\Omega$ and $4k\Omega$ are connected in series across a				
	g	iven quantities:	3.6	200	
	(i	50 N	esistance of the Series Comb		ger sett frambet gibe
		[발표]	lowing through each of the R		
Q7.	(a) V	Vhat is meant by	Nuclear Fission Reaction? Ex	plain it in detail.	Traveye en British A
	(b) V	Vrite a detail note	on Compact Disc and Flash	Drive.	