•	1	2017 (A) Roll No:
		INTERMEDIATE PART-II (12th CLASS)
		S PAPER-II (OLD SCHEME) (SESSION 2012-2014) GROUP-I
TI	ME AI	LOWED: 3.10 Hours SUBJECTIVE MAXIMUM MARKS: 83
NO	TE: - V	Vrite same question number and its part number on answer book, s given in the question paper.
		SECTION-I
2.		Attempt any Eight parts.
	(i)	What is the effect of medium upon Coulomb's force between two charges?
	(ii)	Define Electric Flux and give its unit.
	(iii)	Define Electron Volt and show that $1eV = 1.6 \times 10^{-19} J$.
	(iv)	Electric lines of force never cross. Why?
	(v)	Define Magnetic Flux and write its unit.
	(vi)	Write the expression for Lorentz Force and define it.
	(vii)	Why the resistance of an ammeter should be very low?
	(viii)	Is it possible to orient a current loop in uniform magnetic field such that the loop will not tend to rotate? Explain.
	(ix)	Define Self Induction also write its unit.
	(x)	In a certain region the earth's magnetic field point vertically down. When a plane flies due north, which wingtip is positively charged?
	(xi)	What is meant by Back emf effect in motor?
	(xii)	Show that ε and $\frac{\Delta \phi}{\Delta t}$ have the same units.
3.		Attempt any Digit parts
	(i)	Explain why the terminal potential difference of a battery decreases when the current drawn from it is increased?
	(ii)	Define with unit the temperature coefficient of resistance.
	(iii)	What are non-ohmic devices? Give its two examples.
	(iv)	Write down the Principle of Metal Detectors.
	(v)	How does doubling the frequency affect the reactance of (a) an inductor (b) a capacitor?
	(vi)	What is meant by AM and F.M?
	(vii)	Differentiate between Soft Magnetic Materials and Hard Magnetic Materials.
	(viii)	Define (a) Critical temperature (b) Curie temperature
	(ix)	What do you mean by Plasticity and Elasticity?
	(x)	What are Sensors? Give the sensors for heat and sound.
2	(xi)	Why is the base current in a transistor very small?
	(xii)	Why charge carriers are not present in the depletion region?
4.		Attempt any Six parts. $6 \times 2 = 12$
	(i)	As a solid is heated and begins to glow, why does it first appear red?
	(ii)	Can pair production take place in Vacuum? Explain.
	(iii)	What advantages an electron microscope has over an optical microscope?
	(iv)	Is energy conserved when an atom emits a photon of light?
	(v)	What is meant by bremsstrah lung effect?
	(vi)	Why are Heavy Nuclei unstable?
	(vii)	What factors make a fusion reaction difficult to achieve?
	(viii)	What fraction of radioactive sample decays after two half-lives have elapsed?
	(ix)	What are Hadrons?

SECTION-II (Essay Type) NOTE: - Attempt any three questions. $8 \times 3 = 24$ Define Gauss's Law. Applying Gauss's Law, calculate the electric intensity due to 5.(a) an infinite sheet of charge. 1 + 4 = 5(b) The resistance of an iron wire at $O^{\circ}C$ is $1.0 \times 10^{4} \Omega$. What is the resistance at $500^{\circ}C$ if the temperature coefficient of resistance of iron is $5.2 \times 10^{-3} K^{-1}$? 3 6.(a) What is Transformer? Write down its principle, types and working. 1+1+1+2=5(b) A galvanometer having an internal resistance $Rg = 15.0 \Omega$ gives full scale deflection with current $I_{\kappa} = 20.0 \, \text{mA}$. It is to be converted into an ammeter of range 10.0 A. Find the value of shunt resistance R_S . 3 7.(a) Describe R – L – C series circuit and derive relation for resonance frequency. Also write its properties. 3 + 2 = 5The current flowing into the base of a transistor is $100 \,\mu\,A$. Find its collector current I_C , (b) its emitter current I_E and the ratio $\frac{I_C}{I_E}$, if the value of current gain β is 100. 3 8.(a) Discuss the different energy bands in solids. Describe the electrical behaviour of 2 + 3 = 5the conductors, semiconductors and insulators on the basis of energy bands. (b) An electron is accelerated through a potential difference of 50 V. Calculate its de Broglie wavelength. 3 9.(a) 1 + 2 + 2 = 5What is Laser? Discuss the population inversion and laser action. (b) A 75 kg person receives a whole body radiation dose of 24m - rad, delivered by α - particles for which RBE factor is 12. Calculate the equivalent dose in rem. 3 SECTION-III (PRACTICAL) $4 \times 2 = 8$ 10. (a) Give answers to any Four. What is Shunt? (i) What is the condition for balancing a wheatstone bridge? (ii) (iv) What is Internal Resistance? (iii) How would you convert a galvanometer into a voltmeter? (v) Why a diode does not conduct when it is reverse biased? (vi) How can you test the correctness of connections of slide wire bridge? Define Photo Electric Effect. (viii) Define Impedance and write its unit. (vii) Write down the procedure to find the resistance of galvanometer by Half Deflection Method. (b) 3 Write down the procedure to describe the characteristic of Semiconductor Diode. 4 (c) Answer the question given below on the basis of the following graph. OR Graph-A (ii)Find the slop of graph. What do you infer from the graph? (i) Graph-B (ii) Find the slop of graph. (i) What do you infer from the graph? Graph-B Graph-A dimon

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Paper Code		2017 (A	A) Roll	No.			
,	0/71	INTERMEDIATE P	<i>f.</i>				
Num	ber: 04/1	INTERMEDIATE	ARI-II (12 CLAS	5)			
PHY	SICS PAPER-II	(OLD SCHEME)	(SESSION 2012-20	14) GROUP-I			
TIME	E ALLOWED: 201	Minutes <u>OF</u>	<u>BJECTIVE</u>	MAXIMUM MARKS! 17			
think Cutting as giv	Note: You have four choices for each objective type question as A, B, C and D. The choice which you think is correct, fill that circle in front of that question number. Use marker or pen to fill the circles. Cutting or filling two or more circles will result in zero mark in that question. Attempt as many questions as given in objective type question paper and leave others blank. No credit will be awarded in case BUBBLES are not filled. Do not solve question on this sheet of OBJECTIVE PAPER.						
Q.No		1.6. 1					
(1)	Potential gradient is	SOLICE VIOLENCE CONTROL SOLICE VIOLENCE CONTROL SOLICE VIOLENCE CONTROL SOLICE VIOLENCE VIOLE	727	500			
	(A) $\frac{\Delta E}{\Delta V}$	(B) $-\frac{\Delta V}{\Delta E}$	(C) $-\frac{\Delta V}{\Delta r}$	(D) $\frac{\Delta r}{\Delta V}$			
(2)	The value of relativ	e permittivity for all the die	lectrics other than air or	vacuum is always:-			
	(A) Less than unity	(B) Greater than unity	(C) Equal to unity	(D) Zero			
(3)	Maximum power(P	max) delivered by battery is:-					
	(A) $\frac{E^2}{4r}$	(B) $4rE^2$	(C) VIT	(D) Unlimited			
(4)	Work done by magn	etic force on a moving char	ge is:-				
1000	(A) Maximum	(B) Zero	(C) Minimum	(D) Infinity			
(5)	Number of electrons	in CRO is controlled by:-	The second secon	**************************************			
224.250	(A) Anode	(B) Cathode	(C) Grid	(D) Deflecting plates			
(6)	An inductor may sto	re energy in its:-	15671				
	(A) Magnetic field	(B) Electric field	(C) Neighbouring C	fircuit (D) External circuit			
(7)	Phenomena of Mutu	al Induction is used in:-	en Territorio de la companya del companya de la companya del companya de la compa	nautriennaum — V X mit X onus en			
	(A) Generator	(B) Galvanometer	(C) D.C motor	(D) Transformer			
(8)	In case of capacitor	the unit of reactance is:-					
	(A) Mho	(B) Farad	(C) Ohm	(D) Henry			
(9)	By increasing freque	ency, the reactance of a capa	acitor:-	0877(800,000,000)			
	(A) Increases	(B) Decreases	(C) Remains consta	nt (D) Becomes infinite			
(10)	Fe, Ni and Cobal	t are examples of:-	(A) Paramagnetic m	aterials			
	(B) Diamagnetic ma	terials (C) Semic	onductor materials	(D) Ferromagnetic materials			
(11)	The number of diod	es in a bridge rectifier are:-		A Company of the Comp			
	(A) 4	(B) 3	(C) 2	(D) 5			
(12)	In n - type material,	the minority carriers are:-					
	(A) Free electrons	(B) Holes	(C) Protons	(D) Mesons			
(13)	Pair production is a	process in which energy bec	comes:-				
	(A) Finite	(B) Infinite	(C) Mass	(D) Photon			
(14)	Production of X - ra	ys is reverse process of:-					
	(A) Photoelectric eff	fect (B) Compton effect	(C) Mass Annihilati	on (D) Pair production			
(15)	$K_{\infty} X$ – rays are pro	duced due to transition of e	lectrons from:-				
	(A) K to L shell	(B) L to K shell	(C) M to K shell	(D) M to L shell			
(16)	Two down quarks as	nd one up quark make a:-		*			
	(A) Proton	(B) Photon	(C) Positron	(D) Neutron			
(17)	Control rode in a nu	clear reactor are made of:					

(C) Silicon (D) Germanium

(A) Boron

(B) Uranium

Paper	Code

Roll	No.			

Number:

8473

INTERMEDIATE PART-II (12th CLASS)

PHYSICS PAPER-II (OLD SCHEME) (SESSION 2012-2014) GROUP-	PHYSICS	PAPER-II	(OLD SCHEME)	(SESSION 2012-2014)	GROUP-I
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TIME ALLOWED: 20 Minutes

(A) Maximum

OBJECTIVE

MAXIMUM MARKS: 17

Note: You have four choices for each objective type question as A, B, C and D. The choice which you think is correct, fill that circle in front of that question number. Use marker or pen to fill the circles. Cutting or filling two or more circles will result in zero mark in that question. Attempt as many questions as given in objective type question paper and leave others blank. No credit will be awarded in case BUBBLES are not filled. Do not solve question on this sheet of OBJECTIVE PAPER.

0.1						
$K_{\infty} X$ - rays are produced due to transition of electrons from:-						
(A) K to L shell	(B) L to K shell	(C) M to K shell	(D) M to L shell			
Two down quarks and one up quark make a:-						
(A) Proton	(B) Photon	(C) Positron	(D) Neutron			
Control rods in a nuclear reactor are made of:-						
(A) Boron	(B) Uranium	(C) Silicon	(D) Germanium			
Potential gradient is defined as:-						
	 K_∞ X – rays are pr (A) K to L shell Two down quarks (A) Proton Control rods in a nu (A) Boron 	$K_{\alpha}X$ - rays are produced due to transition of et (A) K to L shell (B) L to K shell Two down quarks and one up quark make a:- (A) Proton (B) Photon Control rods in a nuclear reactor are made of:- (A) Boron (B) Uranium	K_{α} X – rays are produced due to transition of electrons from:- (A) K to L shell (B) L to K shell (C) M to K shell Two down quarks and one up quark make a:- (A) Proton (B) Photon (C) Positron Control rods in a nuclear reactor are made of:- (A) Boron (B) Uranium (C) Silicon			



(5) The value of relative permittivity for all the dielectrics other than air or vacuum is always: (A) Less than unity (B) Greater than unity (C) Equal to unity (D) Zero
 (6) Maximum power(P_{max}) delivered by battery is: (A) E²/Ar
 (B) 4r E² (C) VIT (D) Unlimited

(B) Zero

(8) Number of electrons in CRO is controlled by:
(A) Anode (B) Cathode (C) Grid (D) Deflecting plates

(C) Minimum

(D) Infinity

(A) Anode (B) Catnode (C) Grid (D) Deflecting plates

(9) An inductor may store energy in its:
(A) Magnetic field (B) Electric field (C) Neighbouring Circuit (D) External circuit

(10) Phenomena of Mutual Induction is used in:
(A) Generator (B) Galvanometer (C) D.C motor (D) Transformer

(11) In case of capacitor the unit of reactance is:-

(A) Mho (B) Farad (C) Ohm (D) Henry

(12) By increasing frequency, the reactance of a capacitor:(A) Increases (B) Decreases (C) Remains constant (D) Becomes infinite

(13) Fe, Ni and Cobalt are examples of:- (A) Paramagnetic materials
(B) Diamagnetic materials (C) Semiconductor materials (D) Ferromagnetic materials

(14) The number of diodes in a bridge rectifier are:(A) 4 (B) 3 (C) 2 (D) 5

(15) In n – type material, the minority carriers are:

(A) Free electrons (B) Holes (C) Protons (D) Mesons

(16) Pair production is a process in which energy becomes:

(16) Pair production is a process in which energy becomes:
(A) Finite (B) Infinite (C) Mass (D) Photon

(17) Production of X – rays is reverse process of:-

(A) Photoelectric effect (B) Compton effect (C) Mass Annihilation (D) Pair production

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Number:

(A) Magnetic field

(B) Electric field

8475 INTERMEDIATE PART-II (12th CLASS)

PHY	SICS PAPER-II	I (OLD SCHEME)	(SESSION 2012-20	14) GROUP-I			
TIM	E ALLOWED: 201	Minutes OB	JECTIVE	MAXIMUM MARKS: 17			
think Cutti as giv	is correct, fill that ci ng or filling two or m en in objective type o	rcle in front of that questio	n number. Use marke ro mark in that question hers blank. No credit	on. Attempt as many question will be awarded in case			
Q.No							
(1)	Phenomena of Muti	ual Induction is used in:-					
	(A) Generator	(B) Galvanometer	(C) D.C motor	(D) Transformer			
(2)	In case of capacitor	the unit of reactance is:-					
	(A) Mho	(B) Farad	(C) Ohm	(D) Henry			
(3)	By increasing freque	ency, the reactance of a capac	citor:-				
	(A) Increases	(B) Decreases	(C) Remains consta	nt (D) Becomes infinite			
(4)	Fe, Ni and Cobalt	t are examples of:-	(A) Paramagnetic m	naterials			
	(B) Diamagnetic ma	aterials (C) Semico	onductor materials	(D) Ferromagnetic material			
(5)	The number of diode	es in a bridge rectifier are:-					
	(A) 4	(B) 3	(C) 2	(D) 5			
(6)	In n - type materia	l, the minority carriers are:-					
	(A) Free electrons	(B) Holes	(C) Protons	(D) Mesons			
(7)	Pair production is a	process in which energy bec	omes:-				
	(A) Finite	(B) Infinite	(C) Mass	(D) Photon			
(8)	Production of X - r	ays is reverse process of:-					
	(A) Photoelectric ef	fect (B) Compton effect	(C) Mass Annihilati	ion (D) Pair production			
(9)	$K_{\infty} X$ – rays are produced due to transition of electrons from:-						
	(A) K to L shell	(B) L to K shell	(C) M to K shell	(D) M to L shell			
(10)	Two down quarks a	nd one up quark make a:-					
	(A) Proton	(B) Photon	(C) Positron	(D) Neutron			
(11)	Control rods in a nu	clear reactor are made of:-					
	(A) Boron	(B) Uranium	(C) Silicon	(D) Germanium			
(12)	Potential gradient is	defined as:-	(***)	180 180 180 180 180 180 180 180 180 180			
	ΔE	ΔV	ΔV	Δr			
	(A) $\frac{\Delta E}{\Delta V}$	$(B) - \frac{\Delta E}{\Delta E}$	(C) $-\frac{\Delta V}{\Delta r}$	(D) $\overline{\Delta V}$			
(13)	The value of relativ	e permittivity for all the diel	ectrics other than air or	vacuum is always:-			
	(A) Less than unity	(B) Greater than unity	(C) Equal to unity	(D) Zero			
(14)	Maximum power(P	max) delivered by battery is:-					
	(A) $\frac{E^2}{4r}$	(B) $4rE^2$	(C) VIT	(D) Unlimited			
(15)	Work done by mag	netic force on a moving char	ge is:-				
	(A) Maximum	(B) Zero	(C) Minimum	(D) Infinity			
(16)	Number of electrons	in CRO is controlled by:-		*			
	(A) Anode	(B) Cathode	(C) Grid	(D) Deflecting plates			
(17)	An inductor may sto	re energy in its:-					

(C) Neighbouring Circuit (D) External circuit

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TIMI Note	E ALLO You ha		(OLD SCHEME)	(SESSION 2012-20	014) GROUP-I		
		WED: 20 N	COLUMN TO THE PARTY OF THE PART	BJECTIVE	MAXIMUM MARKS: 17		
					nd D. The choice which you		
					er or pen to fill the circles. on. Attempt as many question		
	The second secon		uestion paper and leave o				
BUBI Q.No		not filled.	Do not solve question on t	his sheet of OBJECTIV	VE PAPER.		
Q.140 (1)		of electrons	in CRO is controlled by:-				
3.50	(A) Ano		(B) Cathode	(C) Grid	(D) Deflecting plates		
(2)	20,000		e energy in its:-	(0) 0110	(b) believing plants		
V=V		gnetic field	(B) Electric field	(C) Neighbouring (Circuit (D) External circuit		
(3)	DOMESTIC OF STREET		Induction is used in:-	(C) Neighbouring C	Sircuit (D) External circuit		
(5)	(A) Gen			(C) D C	(D) T 6		
(4)			(B) Galvanometer	(C) D.C motor	(D) Transformer		
(4)	(A) Mho		he unit of reactance is:-	(0) 01	OF THE STATE OF TH		
(5)	Carrier Annual Contract		(B) Farad	(C) Ohm	(D) Henry		
(5)			ncy, the reactance of a capa		TO 2002 45 42 10 10 10 10 10 10 10 10 10 10 10 10 10		
(6)	(A) Incr		(B) Decreases		ant (D) Becomes infinite		
(6)	Fe, Ni and Cobalt are examples of:- (A) Paramagnetic materials						
	00000	nagnetic mat	3.5	onductor materials	(D) Ferromagnetic materials		
(7)	The num	ber of diodes	s in a bridge rectifier are:-				
	(A) 4		(B) 3	(C) 2	(D) 5		
(8)	In n − ty	pe material,	the minority carriers are:-				
	(A) Fre	e electrons	(B) Holes	(C) Protons	(D) Mesons		
(9)	Pair pro	duction is a p	process in which energy bec	comes:-			
	(A) Fin	ite	(B) Infinite	(C) Mass	(D) Photon		
(10)	Producti	on of X - ray	s is reverse process of:-				
	(A) Photoelectric effect (B) Compton effect (C) Mass Annihilation (D) Pair production						
(11)	$K_{\infty} X -$	rays are prod	luced due to transition of el	ectrons from:-	C 1 = 0		
			(B) L to K shell	(C) M to K shell	(D) M to L shell		
(12)			d one up quark make a:-	(e) in to it shell	(b) In to b shell		
	(A) Prot		(B) Photon	(C) Positron	(D) Neutron		
(13)			lear reactor are made of:-	(C) rosidon	(D) Neutron		
V/	(A) Boro		(B) Uranium	(C) Silican	(D) Commonism		
(14)		gradient is d	decontract when the results and	(C) Silicon	(D) Germanium		
(* ')	22			47/	0200		
	(A) $\frac{\Delta U}{\Delta V}$		(B) $-\frac{\Delta V}{\Delta E}$	(C) $-\frac{\Delta V}{\Delta r}$	(D) $\frac{\Delta r}{\Lambda V}$		
(15)	The value	ue of relative	permittivity for all the diel	ectrics other than air or	vacuum is always:-		
			(B) Greater than unity	(C) Equal to unity	(D) Zero		
(16)			ax) delivered by battery is:-		V-X		
romaño.			-		¥.		
	(A) $\frac{E^2}{4r}$		(B) $4rE^2$	(C) VIT	(D) Unlimited		
(17)	Work do	ne by maone	tic force on a moving charg	re is:-			
10×538%	(A) Max		(B) Zero	(C) Minimum	(D) Infinity		

Roll No:

INTERMEDIATE PART-II (12th CLASS)

PHYSICS PAPER-II (OLD SCHEME) (SESSION 2012-2014) GROUP-II
TIME ALLOWED: 3.10 Hours SUBJECTIVE MAXIMUM MARKS: 83

NOTE: - Write same question number and its part number on answer book, as given in the question paper.

SECTION-I

Attempt any Eight parts.

 $8 \times 2 = 16$

- Describe briefly the force or forces on a positive point charge when placed between parallel plates with similar and equal charges.
- (ii) Do electrons tend to go to region of high potential or of low potential? Explain briefly.
- (iii) Define Capacitor and its Capacitance.
- (iv) Write any two comparison of electrical and gravitational forces.
- (v) Describe briefly why is there no work done by the magnetic force that acts on a moving charge q in uniform magnetic field with velocity V.
- (vi) What should be orientation of a current carrying coil in a magnetic field so that torque acting upon the coil is (a) maximum (b) minimum
- (vii) What is Cathode ray Oscilloscope? State its principle.
- (viii) Describe briefly Electric Flux.
- (ix) Does the induced emf always act to decrease the magnetic flux through a circuit? Explain.
- (x) When an electric motor, such as an electric drill, is being used, does it also act as a generator? If so, what is the consequence of this?
- (xi) Define Self Inductance. Also write its unit.
- (xii) Write two uses of Transformer.

Attempt any Eight parts.

 $8 \times 2 = 16$

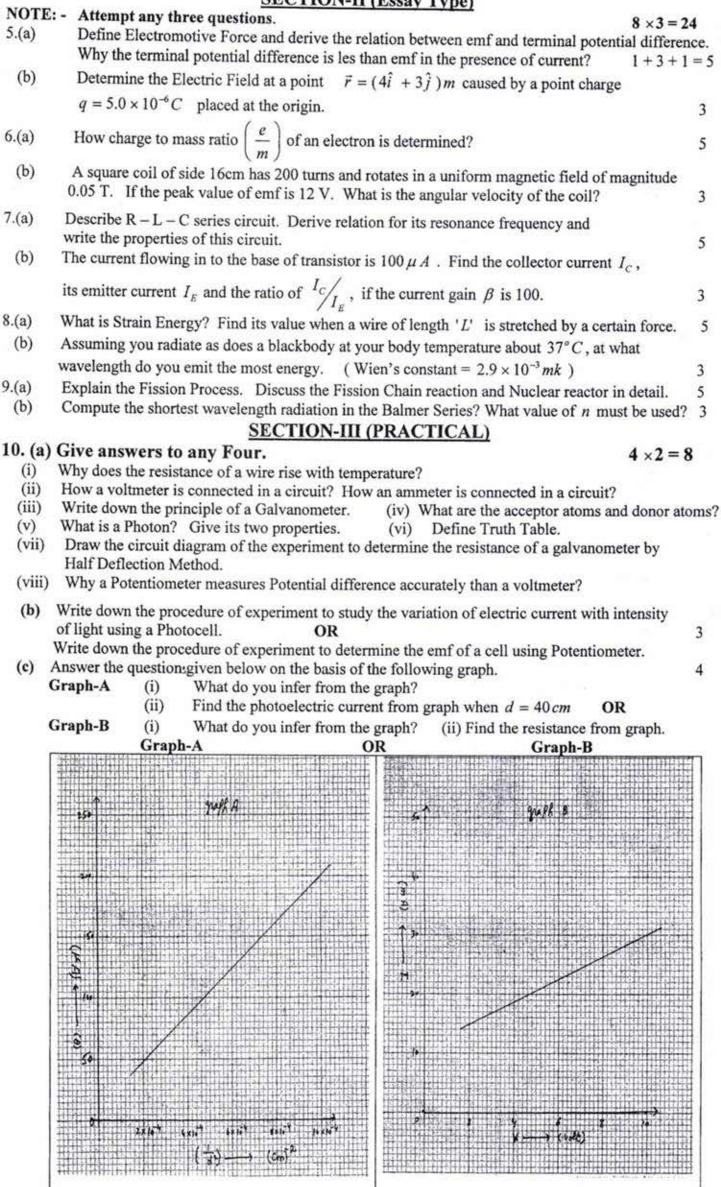
- (i) Why does the resistance of a conductor rise with Temperature?
- (ii) Explain why the terminal potential difference of a battery decreases when the current drawn from it is increased?
- (iii) Why Potentiometer is preferred than ordinary voltmeter?
- (iv) How does doubling the frequency effect the reactance of a capacitor?
- (v) A sinusoidal current has rms value of 10A. What is the maximum or peak value?
- (vi) Define peak to peak value of Current.
- (vii) What are diamagnetic substances? Give one example.
- (viii) Differentiate between Intrinsic and Extrinsic Semiconductors.
- (ix) What do you mean by term Coercitivity?
- (x) Why ordinary silicon diodes do not emit light?
- (xi) What is the net charge on a p type or n type substance?
- (xii) Write two applications of Photodiodes.

Attempt any Six parts.

 $6 \times 2 = 12$

- (i) As a solid is heated and begins to glow, why does it first appear red?
- (ii) Will bright light eject more electrons from a metal surface than dimmer light of the same colour?
- (iii) What is the difference between Inertial and Non-inertial frame of reference?
- (iv) How can the spectrum of Hydrogen contains so many lines when Hydrogen contains one Electron?
- (v) What are the advantages of lasers over ordinary light?
- (vi) Why are the heavy nuclei unstable?
- (vii) What factors make a fusion reaction difficult to achieve?
- (viii) What is the function of moderator in a Nuclear reactor?
- (ix) Define Nuclear Fission and Fusion.

SECTION-II (Essay Type)



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Pape	r Code			()	Roll No
Num	ber:	8472	INTERMEDIAT	TE PART-II (12 th C	LASS)
TIME	EALLO	OWED: 20 1	Minutes	E) (SESSION 201 OBJECTIVE type question as A, B,	2-2014) GROUP-II MAXIMUM MARKS: 17 C and D. The choice which you
think Cutting as giv	is corre ng or fil en in ol	ect, fill that ci lling two or m piective type o	rcle in front of that quote circles will result question paper and le	iestion number. Use m in zero mark in that q	narker or pen to fill the circles. uestion. Attempt as many questior redit will be awarded in case
Q.No		A Mala and a		lastria field in	
(1)			subjected to external e		(D) Vapourized
(2)	5.00%	agnetized	(B) Ionized	(C) Polarized	LEARN STANCE IN THE SECOND SECOND
(2)					nd $3\mu C$ at distance $1cm$ is:-
	(A) 2		(B) 3:2	(C) 1:6	(D) 1:1
(3)		tivity depends			- Production - March 2 of the Production of the
	(A) L	ength	(B) Temperature	(C) Area of Cross-sec	tion (D) All of these
(4)	A char	rged particle n	noving at 45° to $ec{B}$ fo	ollows:-	
	(A) H	elical path	(B) Straight path	(C) Circular path	(D) Elliptical path
(5)	0.1		1 22 1	BAN	
(5)			e made sensitive by ma		(3223)
	(A) S		(B) Constant	(C) Zero	(D) Large
(6)	In A.C	circuit, the c	urrent lags by the volta	ge by $\frac{\pi}{3}$, the circuit co	omponents are:-
	(A) R	and C	(B) R and L	(C) Only R	(D) Only C
(7)	Power	r dissipated in	an ideal choke is:-		
	(A) L	arge	(B) Small	(C) Zero	(D) Infinite
(8)	,	quantity is in	creased in the secondar	ry of step down transform	mer.
	(A) P	ower	(B) Current	(C) Voltage	(D) Frequency
(9)	Self in	nductance of s	olenoid is:-		
	(A) µ	$\iota_o n^2 A \ell$	(B) $\mu_o nA\ell$	(C) $\mu_o NA\ell$	(D) $\mu_o N^2 A \ell$
(10)		is not crystal	line.		
	(A) P	olythene	(B) Zinc	(C) Zirconia	(D) Sodium Chloride
(11)	A pho	otodiode swite	hes its current ON or C	OFF in:-	
	(A) 1	$10^{-3}s$	(B) 10 ⁻⁶ s	(C) 10 ⁻⁹ s	(D) $10^{-12} s$
(12)	(8) (-45) (-4		of PN - junction is:-	100 E 100	
2.2	(A) 2		(B) Very large	(C) Infinity	(D) Few ohms
(13)	9233		ach each other, their re	10 P	THE THE SECURIOR SECURIOR SECURIOR
3552	(A)		(B) Less than C	(C) 2 C	(D) $\frac{C}{2}$
(14)		has the large	et de - Proglie wavele	ngth at the same speed.	7.2
(14)		roton			(D) Neutron
(15)	26 (2)		(B) α – particle		(D) Neutron
(13)			produced due to transit		MARK BOSTONESCO
			(B) M to K shell	(C) M to L shell	(D) L to K shell
(16)	12/11/12/2016	5	antiquark makes:-		
355500	NACOTA-	Baryon	(B) Meson	(C) Proton	(D) Neutron
(17)			ns in ²³⁸ ₉₂ U are:-	(0) 220	(D) 146
	(A) 5	74	(B) 238	(C) 330	(D) 146

20(Obj)(\$\frac{1}{2}\$)-2017(A)- 620 (MULTAN)

		i		**
Pape	er Code			No
Num	iberi §474	INTERMEDIA	TE PART-II (12th CLAS	5)
Note think Cutti as giv BUB Q.No	E ALLOWED: 20 : You have four cho is correct, fill that ci ng or filling two or n yen in objective type BLES are not filled.	Minutes ices for each objective ircle in front of that question paper and let the document of the desired in th	uestion number. Use marker in zero mark in that question are others blank. No credit on this sheet of OBJECTI	MAXIMUM MARKS: 17 and D. The choice which you er or pen to fill the circles. on. Attempt as many question will be awarded in case
(1)		produced due to transit		m . r
(0)	2 F 18 17 19 19 19	(B) M to K shell	(C) M to L shell	(D) L to K shell
(2)	A pair of quark and	ACADA PARA	COMPAN OF	7,000
283600	(A) Baryon	(B) Meson	(C) Proton	(D) Neutron
(3)	Number of Neutron: (A) 92	s in ${}^{238}_{92}U$ are:- (B) 238	(C) 330	(D) 146
(4)	Non polar dielectric	subjected to external	electric field is:-	
	(A) Magnetized	(B) Ionized	(C) Polarized	(D) Vapourized
(5)	Ratio of mutual ele	ectric forces between tw	vo point charges $2\mu C$ and 3	μC at distance 1cm is:-
	(A) 2:3	(B) 3:2	(C) 1:6	(D) 1:1
(6)	Resistivity depends	s on:-		
	(A) Length	(B) Temperature	(C) Area of Cross-section	(D) All of these
(7)	A charged particle i	moving at 45° to \vec{B} f	follows:-	
	(A) Helical path	(B) Straight path	(C) Circular path	(D) Elliptical path
(8)	Galvanometer can b	be made sensitive by m	aking BAN.	
(0)			(0) 7	(D) Y
	(A) Small	(B) Constant	(C) Zero	(D) Large
(9)			ge by $\frac{\pi}{3}$, the circuit compor	
25.00			(C) Only R	(D) Only C
(10)	DOWNEST:		325 25	2015 10 10
	(A) Large	(B) Small	(C) Zero	(D) Infinite
(11)			ry of step down transformer.	A State of materials at the property of
(10)	(A) Power	(B) Current	(C) Voltage	(D) Frequency
(12)	Self inductance of s			74
		(B) $\mu_o nA\ell$	(C) $\mu_o NA\ell$	(D) $\mu_o N^2 A \ell$
(13)	is not crysta	lline.		
	(A) Polythene	(B) Zinc	(C) Zirconia	(D) Sodium Chloride
(14)		ches its current ON or	OFF in:-	
	(A) $10^{-3} s$	(B) $10^{-6} s$	(C) $10^{-9} s$	(D) $10^{-12} s$
(15)		of PN – junction is:-		
25 14	(A) Zero	(B) Very large	(C) Infinity	(D) Few ohms
(16)		oach each other, their re	550	- C/
	(A) C	(B) Less than C	(C) 2 C	(D) $\frac{C}{2}$
(17)	has the large	est de – Broglie wavele	ength at the same speed.	
	(A) Proton	(B) α – particle	(C) Electron	(D) Neutron

Pane	r Code		20	017 (A)	Roll No.	
10.5		8476		3 65		
Num	ber:	04/0	INTERMEDIA	1E PAR1-11 (12	(CLASS)	
TIMI Note think Cuttin as giv	E ALLO : You h is corre ng or fil en in ob BLES ar	OWED: 20 Maye four choict, fill that cirling two or mojective type of	ces for each objective rele in front of that of ore circles will result uestion paper and l	OBJECTIVE we type question as question number. It in zero mark in t eave others blank.		RKS: 17 ch you cles. question
(1)		quantity is ir	ncreased in the second	dary of step down tr	ansformer.	
	(A) Po	wer	(B) Current	(C) Voltage	(D) Frequency	
(2)	Self in	nductance of s	olenoid is:-			
	(A) μ	$n^2 A \ell$	(B) $\mu_o nA\ell$	(C) $\mu_o NA\ell$	(D) $\mu_o N^2 A \ell$	
(3)	2	is not crystall	line.			
	(A) Po	lythene	(B) Zinc	(C) Zirconia	(D) Sodium Chlorid	le
(4)	A pho	todiode switch	hes its current ON or	OFF in:-		
	(A) 1	$0^{-3} s$	(B) $10^{-6} s$	(C) $10^{-9} s$	(D) $10^{-12} s$	
(5)	Forwa	ard resistance	of PN - junction is:-			
	(A) Z	ero	(B) Very large	(C) Infinity	(D) Few ohms	
(6)	Two p	hotons approa	ch each other, their r	elative speed will be	:-	
	(A) (C	(B) Less than C	(C) 2 C	(D) $\frac{C}{2}$	
(7)		has the large:	st de – Broglie wavel	ength at the same sp	eed.	
	(A) Pr	roton	(B) α - particle	(C) Electron	(D) Neutron	
(8)	K_{α} -	X – rays are p	roduced due to transi	tion of electrons from	m:-	
	(A) I	to L shell	(B) M to K shell	(C) M to L she	ell (D) L to K shell	
(9)			antiquark makes:-		ASC 1000 FUNCTION 144-1500 SERV	
	(A) B	aryon	(B) Meson	(C) Proton	(D) Neutron	
(10)	Numb	er of Neutrons	s in $\frac{238}{92}U$ are:-			
	(A) 9		(B) 238	(C) 330	(D) 146	
(11)	Non p	olar dielectric	subjected to external	electric field is:-		
	(A) M	agnetized	(B) Ionized	(C) Polarized	(D) Vapourized	
(12)	Ratio	of mutual ele	ctric forces between t	wo point charges 2	μC and $3 \mu C$ at distance $1 cm$ is	S:-
	(A) 2	2:3	(B) 3:2	(C) 1:6	(D) 1:1	
(13)	Resis	tivity depends	on:-			
	(A) L	ength	(B) Temperature	(C) Area of Cro	ss-section (D) All of these	
(14)	A char	rged particle n	noving at 45° to \vec{B}	follows:-		
3.00		elical path	(B) Straight path	(C) Circular pat	h (D) Elliptical path	
(15)	Galva	nometer can b	e made sensitive by r	naking BAN	1100 5 3	
(15)	(A) S		(B) Constant	(C) Zero	(D) Large	
(16)	In A.C	circuit, the c	urrent lags by the vol	tage by π_2 , the circ	cuit components are:-	
000 W		and C	(B) R and L	(C) Only R	(D) Only C	
(17)	Power	dissipated in a	an ideal choke is:-		0.00	
	(A) La	arge	(B) Small	(C) Zero	(D) Infinite	
			20(O	bj)(******)-2017	(A)-620 (MULTAN)	

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Roll No.	
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Number:

8478

(A) Helical path

(B) Straight path

INTERMEDIATE PART-II (12th CLASS)

			E) (SESSION 2012-201	(4) GROUP-II			
	E ALLOWED: 20 M			MAXIMUM MARKS: 17			
Note	: You have four choi	ces for each objective	type question as A, B, C and lestion number. Use market	or pen to fill the circles.			
Cutti	ng or filling two or m	ore circles will result	in zero mark in that question	n. Attempt as many questions			
as giv	en in objective type q	question paper and lea	ave others blank. No credit von this sheet of OBJECTIV	will be awarded in case E PAPER.			
Q.No		Do not solve question	on this sheet of obotic 11.	***			
(1)		made sensitive by mal	king $\frac{BAN}{C}$:-				
	(A) Small		(C) Zero	(D) Large			
(2)	In A.C circuit, the current lags by the voltage by $\frac{\pi}{3}$, the circuit components are:-						
	(A) R and C	(B) R and L	(C) Only R	(D) Only C			
(3)	Power dissipated in a	an ideal choke is:-					
	(A) Large	(B) Small	(C) Zero	(D) Infinite			
(4)	quantity is inc	creased in the secondar	y of step down transformer.				
	(A) Power	(B) Current	(C) Voltage	(D) Frequency			
(5)	Self inductance of so	olenoid is:-					
	(A) $\mu_o n^2 A \ell$	(B) $\mu_o nA\ell$	(C) $\mu_o NA\ell$	(D) $\mu_o N^2 A \ell$			
(6)	is not crystal	line.					
	(A) Polythene	(B) Zinc	(C) Zirconia	(D) Sodium Chloride			
(7)	A photodiode switch	hes its current ON or C	OFF in:-				
	(A) $10^{-3} s$	(B) $10^{-6} s$	(C) $10^{-9} s$	(D) $10^{-12} s$			
(8)	Forward resistance	of PN - junction is:-					
	(A) Zero	(B) Very large	(C) Infinity	(D) Few ohms			
(9)	Two photons approx	ach each other, their re	lative speed will be:-	~ /			
	(A) C	(B) Less than C	(C) 2 C	(D) $\frac{C}{2}$			
(10)	has the largest de - Broglie wavelength at the same speed.						
	(A) Proton	(B) α - particle	(C) Electron	(D) Neutron			
(11)	$K_{\alpha} - X$ – rays are p	roduced due to transiti	on of electrons from:-				
	(A) K to L shell	(B) M to K shell	(C) M to L shell	(D) L to K shell			
(12)	A pair of quark and	antiquark makes:-					
	(A) Baryon	(B) Meson	(C) Proton	(D) Neutron			
(13)	Number of Neutron	s in $^{238}_{92}U$ are:-					
	(A) 92	(B) 238	(C) 330	(D) 146			
(14)	Non polar dielectric	subjected to external e	electric field is:-				
	(A) Magnetized	(B) Ionized	(C) Polarized	(D) Vapourized			
(15)	Ratio of mutual ele	ctric forces between tw	vo point charges $2\mu C$ and 3μ	uC at distance 1cm is:-			
	(A) 2:3	(B) 3:2	(C) 1:6	(D) 1:1			
(16)	Resistivity depends	on:-					
	(A) Length	(B) Temperature	(C) Area of Cross-section	(D) All of these			
(17)	A charged particle n	noving at 45° to $ec{B}$ fo	ollows:-				

(C) Circular path

20(Obj)(************)-2017(A)-620

(D) Elliptical path

(MULTAN)

BOARD OF INTERMEDIATE AND SECONDARY EDUCATION,

OBJECTIVE K	EY FOR INTER (I	PART-I/II) Annual Examination, 2017
Name of Subject	Physics	Session 2012-2014

	p: 1:		ld	
Q. Nos.	Paper Code	Paper Code	Paper Code	Paper Code
	8471	8473	8475	8477
1.	С	В	D	С
2.	B	D	C	A
3.	A	Α	B	D
4.	В	С	D	С
5.	С	В	Α	В
6.	Α	Α	В	D
7.	D	В	С	Α
8.	С	С	Α	В
9.	B	A	B	C
10.	D	D	D	A
11.	Α	c	Α	В
12.	В	В	С	D
13.	С	D	В	Α
14.	Α	A	A	C
15.	В	В	В	B
16.	D	C	С	A
17.	A	A	Α	В
18.	,	,	,	,
19.		/		
20.	1	/	/	1

Group): 2nd			
Q. Nos.	Paper Code	Paper Code	Paper Code	Paper Code
NOS.		8474		8478
1.	С	D	В	D
2.	D	В	Α	В
3.	В	D	Α	С
4.	Α	С	C	В
5.	D	D	D	A
6.	В	В	Α	Α
7.	С	Α	С	С
8.	В	D	D	D
9.	Α	В	B	Α
10.	Α	С	D	С
11.	С	B	С	D
12.	D	Α	D	B
13.	Α	Α	B	D
14.	C	C	Α	С
15.	D	D	D	D
16.	В	Α	B	B
17.	D	С	C	Α
18.	,	,	,	,
19.	/			
20.	1	/	/	/

سر فيفيكيك بابت تفيح سواليدير چيا ماركنگ Key

بم خيمون Physics ريد اله المراق الم المراق (Subjective & Objevtive) کو بنظر عمیق چیک کرایا ہے یہ پر چیسس کے عین مطابق Set کیا گیا ہے۔اس سوالیہ پر چہ میں کی تشم کی کوئی غلطی ندے ہم نے سوالید پر چہ کا اددواد احکریز Version جی چیک کرلیا ہے یہ Version آپس میں مطابقت دکھتے ہیں اور سلیس (Syllabus) ے مطابق بھی ہیں۔ نیزاس پرچد کی Key کی بات بھی تقدیق کی جاتی ہے کہ یہ بھی درست بنائی می ہے کہ کا تم کی کو فی فلطی نہے۔ مزید بیکہ ہم نے Key بنانے سے متعلق دفتر کی جانب سے تیارہ کردہ ہایات وصول کر کے ان کا بغور مطالعہ کرلیا ہے اوران کی روشنی میں Key بنائی ہے۔

PREPARED & CHECKED BY

Sr.No Name ·

Designation Institution

Mobile No.

Signature.