Roll No._____to be filled in by the candidate.

17. Which one belongs to trivalent group?

(A) Aluminium

(B) Antimoney

(For all sessions)

Paper Code 8 4 7 5

Physics (Objective Type)

Time: 20 Minutes					Marks: 17
NOTE: Write answers to the questions on objective answer sheet provided. Four possible answers A,B,C & D to each					
question are given. Which answer you consider correct, fill the corresponding circle A,B,C or D given in front of each					
question with Marker or pen ink on the answer sheet provided.					
1.	<i>k</i>				
1.1. Colour of light emitted by	LED depands upon:				32 G
(A) its forward biasing	(B) its reverse biasing	(C)	type of material	(D)	forward current
2. At low temperature, a boo	_/A// A:	1000 51		386 FR	¥
(A) shorter wavelength	(2)	(B)	longer wavelength		
(C) high frequency	e		high frequency& shorter wavelength		
3. The shortest wavelength in Lyman series is equal to:					
(3)		1222	1	72230	2
(A) R _H	(B) $\frac{R_H}{2}$	(C)	$\frac{1}{R_{H}}$	(D)	$\frac{2}{3}R_{\rm H}$
	4		\mathbf{K}_{H}		3
4. In the reaction, $X^{+\frac{17}{8}}O \rightarrow$		•	-		
(A) ^{1}H	(B) ${}_{1}^{2}H$	(C)	$_{1}^{0}e$	(D)	_1e
5. If the charges are doubled and the distance between them is also doubled, then Coulomb's force will be:					
(A) double	(B) halved	(C)	remains same	(D)	four times
6. A rubber ball of radius 2cm has a charge of $5\mu c$ on its surface, which is uniformly distributed,					
the value of \overrightarrow{E} at its cent					
(A) 10NC ⁻¹	(B) Zero	(C)	2.5 NC ⁻¹	(D)	5x10 ⁻⁶ NC ⁻¹
7. Which one of the following	AND THE PARTY OF T	(0)	2.0110	(1)	5210 110
	The same of the sa	(C)	ioulo-valt / amnara	, (D)	invionantimb v volt
(A) joule=volt x ampere (B) joule=coulomb / volt (C) joule=volt / ampere (D) joule=coulomb x volt 8. In carbon resistors, which colour band indicates the tolerance of $\pm 10\%$?					
The same and the s				 .	
(A) White	(B) Silver	(C)	Gold	(D)	Violet
9. For an open circuit, termi	nal potential difference 'Vt' is:				E 10
(A) Vt=2emf	(B) Vt=emf	(C)	Vt>emf	(D)	Vt <emf< td=""></emf<>
10. An electron travelling at 10 ⁶ m/s enters parallel in a magnetic field of 1 tesla, the magnetic force acting on it is:					
(A) Zero	(B) 10 ⁻¹² N	(C)	10 ³ N	(D)	1.6 x 10 ⁻¹³ N
11. When a charged particle is projected opposite to the direction of magnetic field, it experiences a force equal to:					
(A) $quB\cos\theta$	(B) $quB\sin 90$	(C)	quB	(D)	zero
12. In order to increase the r					0
		(0)		/ D\	9
(A) increased	(B) decreased	(C)	unchanged	(n)	increased by 4 times
13. Which device permits the	e flow of D.C?			27	
(A) Capacitor	(B) Photocell	(C)	Inductor	(D)	transformer
For an ideal step up trans	sformer:				
(A) Np>Ns	(B) $V_SI_S > V_DI_D$	(C)	Vs <vp< td=""><td>(D)</td><td>I_S<i<sub>p</i<sub></td></vp<>	(D)	I _S <i<sub>p</i<sub>
15. When a metal detector comes close to a metal then its frequecy:					
(A) becomes double	(B) remains same	(C)	becomes half	(D)	increases
16. In RLC series circuit, at higher frequencies:					
(A) X _L =X _C	(B) X _L >X _C	(C)	X _L <x<sub>C</x<sub>	(D)	X _L =0
, , , , ,				. ,	125

(C) Phosphorous

629-012-A-☆☆☆

(D) Arsenic