Paper Code Number: 8471	2015 (A) Roll No._____

INTERMEDIATE PART-II (12th CLASS)

PHYSICS PAPER-II (NEW SCHEME) TIME ALLOWED: 20 Minutes
GROUP-I **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.

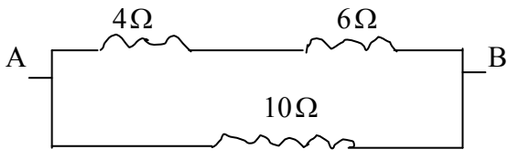
Q.No.1

(1) Two charges are placed at a certain distance. If the magnitude of one charge is double, the force become:-
(A) 2 – time of its original value (B) 4 – times of its original
(C) 8 – times of its original (D) Remains constant

(2) Minimum charge an object is:-

(A) $6.63 \times 10^{-34} C$ (B) $9.1 \times 10^{-31} C$ (C) $1.6 \times 10^{-27} C$ (D) $1.6 \times 10^{-19} C$

(3) Three resistor of value 4Ω, 6Ω and 10Ω are connected as shown in fig the equivalent resistance between points A and B is:- (A) 5Ω (B) 8Ω (C) 12Ω (D) 20Ω



(4) Two parallel wires carrying current I_1 and I_2 in opposite direction:- (A) Attract each other
(B) Repel each other (C) Exert oscillating force (D) Exert no force on each other

(5) Saw-tooth wave form means that its voltage:- (A) Decrease linearly with time
(B) Increase linearly with time (C) Increase linearly with time and then drop to zero
(D) Decrease linearly with time and increase rapidly

(6) Len's law is consequence of Law of Conservation of:-

(A) Charge (B) Energy (C) Momentum (D) Current

(7) One hennery is equal to:-

(A) 1 Ohm × Sec (B) Ohm × Meter (C) Ohm × Coulomb (D) Ohm × Farad

(8) The frequency of a.c. main in Pakistan is:- (A) 50 Hz (B) 60 Hz (C) 110 Hz (D) 220 Hz

(9) SI unit of impedance:- (A) Henery (B) Hertz (C) Ampere (D) Ohm

(10) When the current is reduced to zero and the material remains magnetized, this property is called:-

(A) Magnetization (B) Retentivity (C) Hysteresis (D) Saturation

(11) In a transistor, the base is:- (A) An insulator (B) A conductor of law resistance
(C) A conductor of high resistance (D) An extrinsic semiconductor

(12) NAND-gate is a combination of:- (A) NOT-gate and NOT-gate
(B) AND gate and NOT-gate (C) NOT gate and OR gate (D) OR-gate and NOT-gate

(13) The rest mass energy of an electron is:-
(A) $5.11 \times 10^4 ev$ (B) $5.11 \times 10^5 ev$ (C) $5.11 \times 10^6 ev$ (D) $5.11 \times 10^8 ev$

(14) Plank's work was connected with:- (A) Wave nature of mater
(B) Photo-electric effect (C) Structure of atom (D) Quantum nature of radiation

(15) Balmer Series lies in:-

(A) Ultra violet region (B) Infrared (C) Visible region (D) Par ultraviolet region

(16) Bremsstahlung' means:- (A) Breaking radiation
(B) Braking radiation (C) Momentum of radiation (D) Deceleration of radiation

(17) If a material object moves with the speed of light, its mass beomces:-

(A) Equal to its rest mass (B) Double of its rest mass (C) Four times of its rest mass (D) Infinite