

**Model Paper****Physics Paper – XII**

1۔ ہر سوال کے سامنے چار دائرے دئے گئے ہیں، صرف صحیح جواب والا دائرہ بھریں۔

2۔ دائروں کو شیڈ (بھرنے) کے لئے نیلے یا کالے رنگ کا مارکر استعمال کریں۔

3۔ جواب میں ایک سے زائد دائرے بھرنے سے جواب غلط تصور ہوگا۔

**Time Allowed: 20 Minutes****SECTION – A****Marks : 18**

- |    |                                                                                                                                               |                                                       |                                                       |                                                      |                                        |
|----|-----------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------|-------------------------------------------------------|------------------------------------------------------|----------------------------------------|
| 1  | The minimum charge on any body can not less than.....                                                                                         | <input type="radio"/> $1.6 \times 10^{-27} \text{ C}$ | <input type="radio"/> $1.6 \times 10^{-19} \text{ C}$ | <input type="radio"/> $1.6 \times 10^{31} \text{ C}$ | <input type="radio"/> None of these    |
| 2  | If a charged particle moves through a magnetic field perpendicular to it. The energy of the particle will .....                               | <input type="radio"/> Increase                        | <input type="radio"/> Decrease                        | <input type="radio"/> Remain Constant                | <input type="radio"/> None of these    |
| 3  | The force b/w two points charges when placed in a dielectric medium will.....                                                                 | <input type="radio"/> Increase                        | <input type="radio"/> Decrease                        | <input type="radio"/> Remain Constant                | <input type="radio"/> None of these    |
| 4  | Which one can be used as a unit of energy?                                                                                                    | <input type="radio"/> Volt-ampere                     | <input type="radio"/> Newton per meter                | <input type="radio"/> Watt second                    | <input type="radio"/> Volt per coulomb |
| 5  | A perfect absorber must be a perfect.....                                                                                                     | <input type="radio"/> Cavity                          | <input type="radio"/> Radiator                        | <input type="radio"/> Source of radiation            | <input type="radio"/> Black            |
| 6  | Pair production occurs only when the energy of photon is at least equal to .....                                                              | <input type="radio"/> 1.02 Mev                        | <input type="radio"/> 1.02 Kev                        | <input type="radio"/> 1.02 Ev                        | <input type="radio"/> 1.02 Jouls       |
| 7  | Weber per second is equal to .....                                                                                                            | <input type="radio"/> Joule                           | <input type="radio"/> Volt                            | <input type="radio"/> Tesla                          | <input type="radio"/> None of tehse    |
| 8  | If the K.E of electrons, protons, alpha particles and neutrons is the same. Which one will have the shortest wavelength?                      | <input type="radio"/> Electron                        | <input checked="" type="radio"/> Proton               | <input type="radio"/> Alpha particle                 | <input type="radio"/> Neutron          |
| 9  | If a step up transformer is 100% efficient, the primary and secondary windings will have the same.....                                        | <input type="radio"/> Power                           | <input type="radio"/> Current                         | <input type="radio"/> Number of turns                | <input type="radio"/> Voltage          |
| 10 | When the P-N junction is reversed biased. The current flowing through it will have the order of.....                                          | <input type="radio"/> Milli amperes                   | <input type="radio"/> Amperes                         | <input type="radio"/> Nano amperes                   | <input type="radio"/> Micro-amperes    |
| 11 | An electrical bulb marked 100W, 200V would mean that the resistance is .....                                                                  | <input type="radio"/> $200\Omega$                     | <input type="radio"/> $400\Omega$                     | <input type="radio"/> $50\Omega$                     | <input type="radio"/> $2\Omega$        |
| 12 | The shortest wavelength of radiation in Paschen series is .....                                                                               | <input type="radio"/> $RH/9$                          | <input type="radio"/> $9/RH$                          | <input type="radio"/> $9 RH$                         | <input type="radio"/> $99 RH$          |
| 13 | The ionization potential of Hydrogen atom is.....                                                                                             | <input type="radio"/> 13.6 kev                        | <input type="radio"/> 13.6 Mev                        | <input type="radio"/> 13.6 ev                        | <input type="radio"/> -13.6 ev         |
| 14 | The phase difference between current and voltage at resonance is .....                                                                        | <input type="radio"/> 0                               | <input type="radio"/> $\pi$                           | <input type="radio"/> $-\pi$                         | <input type="radio"/> $\frac{\pi}{2}$  |
| 15 | What is the coefficient of mutual inductance when the magnetic flux changes by $2 \times 10^{-2} \text{ Wb}$ and change in current is 0.01 A? | <input type="radio"/> 2H                              | <input type="radio"/> 3H                              | <input type="radio"/> $\frac{1}{2} \text{ H}$        | <input type="radio"/> Zero             |
| 16 | A circuit having zero resistance is called.....                                                                                               | <input type="radio"/> Short circuit                   | <input type="radio"/> Open circuit                    | <input type="radio"/> Closed circuit                 | <input type="radio"/> None of these    |
| 17 | The reciprocal of decay constant of a radio active substance is .....                                                                         | <input type="radio"/> Half life                       | <input type="radio"/> Total life                      | <input type="radio"/> Mean life                      | <input type="radio"/> None of these    |
| 18 | The radius of 3 <sup>rd</sup> bohr orbit in H-atom is greater than the radius of the 1 <sup>st</sup> orbit by the factor of.....              | <input type="radio"/> 9                               | <input type="radio"/> 3                               | <input type="radio"/> 2                              | <input type="radio"/> 4                |