| Name: | Subject: Physics | Class: 10 th | Time: 80 minutes | Total Marks: | 40 |
|-----------------------|--|-------------------------------|---------------------|----------------|----|
| Chapter No. | | MJDexpert.com | | Obtained marks | |
| | I | | | | |
| Note: Pleas | e attempt any 11 short que | estions from Questi | on 2. Also, attem | pt both parts | |
| (a ai | nd b) of Question 3. Cutting | and removal of an | y content is strict | ly prohibited. | |
| | Object | ive-Section | | | |
| Q. 1 Encircle | the correct answer. | (9x1=9) | | | |
| 1. An instr | ument used for detecting cl | harge is: | | | |
| (A) Stro | ooscope (B) Electroscope (C | C) Spectroscope (D) | Microscope | | |
| 2. The valu | e of KKK in Coulomb's law i | is: | | | |
| (A) 8.99 | $\times 10^{9} \text{ Nm}^{2}/\text{C}^{2}$ (B) 9.00 $\times 1^{10}$ | $0^9 \text{ Nm}^2/\text{C}^2$ | | | |
| 3. (C) 1.00 | × 10^9 Nm ² /C ² (D) 1.00 × 1 | .0^10 Nm²/C² | | | |
| 4. The SI u | nit of charge is: | | | | |
| (A) Volt | (B) Coulomb (C) Ampere (D |)) Ohm | | | |
| 5. SI unit o | f electric intensity is: | | | | |
| (A) N/C | (B) N.m (C) N.A (D) N.C | | | | |
| 6. The elec | tric lines of forces were int | roduced by: | | | |
| (A) New | field lies in a Earac | D (D) Faraday | | | |
| 7. A Strong | ric (P) Magnotic (C) Goome | idy cage. | | | |
| (A) Lieu 8 One Vol | t (1) is equal to: | | ai | | |
| | (R) 11 (C) 1V (D) 1V/C | | | | |
| 9. A capac | tor stores: | | | | |
| (A) Curr | ent (B) Voltage (C) Charge (| D) Resistance | | | |
| 10. In a mic | a capacitor, the dielectric is | ; | | | |
| (A) Mica | (B) Aluminium (C) Paper ([| D) Plastic | | | |
| | Subject | ive-Section | | | |
| | | | | | |
| Q.2 Write sho | rt answers of any 11 of t | the following que | stions: (11x2=2 | 2) | |
| I. HOW IS (| marge produced? Give an e | istion? | | | |
| 2. What is | the function of an electros | | | | |
| J. Define (| 'oulomb's law and write the | e formula for findin | g force | | |
| 5 What is | the difference between ele | ectric field and elect | ric intensity? | | |
| 6. Write ty | vo characteristics of electric | c lines of force. | ine intensity. | | |
| 7. Define e | lectric potential and write | its unit. | | | |
| 8. Define t | he capacitance of a capacit | or. | | | |
| 9. Name d | fferent types of capacitors. | | | | |
| 10. Define r | nica capacitor and paper ca | pacitor. | | | |
| 11. Write de | own a brief note on the app | lication of electros | tatics in spray pa | inting. | |
| 12. What ar | e the hazards of static elect | tricity? | | | |
| Q.No.3 Long | Question: | | (5+4=9 |) | |
| a) What is | meant by specific resistanc | e (resistivity)? Expla | ain it. | | |
| b) Discuss | different types of canacitor | ·s | | | |