

OLYMPIAD PROBLEMS

- Q.1 The smallest particle of matter is
 (A) an electron (B) a proton
 (C) a neutron (D) a atom
- Q.2 The neutron carries a charged of
 (A) 1.66×10^{-19} Coulomb
 (B) -1.66×10^{-19} Coulomb
 (C) no charge
 (D) none of these
- Q.3 Static electricity
 (A) does not flow
 (B) flows in the circuit
 (C) sometimes flows
 (D) none of these
- Q.4 The lightning occurs due to
 (A) static electricity
 (B) dynamic electricity
 (C) thunder
 (D) none of these
- Q.5 Plastic and rubber are
 (A) charged bodies (B) conductors
 (C) insulators (D) none of these
- Q.6 Which of the following is a good conductor of electricity ?
 (A) wood (B) steel spoon
 (C) dry air (D) chalk
- Q.7 Which of the following is a bad conductor of electricity ?
 (A) gold (B) mercury
 (C) silver (D) plastics
- Q.8 Electric charge can flow only through
 (A) insulators
 (B) conductors
 (C) both (A) and (B)
 (D) None of these
- Q.9 Two objects rubbed against each other
 (A) will lose electrons
 (B) will repel each other
 (C) will attract each other
 (D) may attract or repel each other
- Q.10 The gold leaf electroscope can be used to
 (A) detect charge only
 (B) detect or measure charge only
 (C) detect, measure and find the nature of charge
 (D) none of these
- Q.11 Which of the following can be charged with static electricity ?
 (A) metal (B) alloy
 (C) insulator (D) semiconductor
- Q.12 When two bodies are rubbed against each other, they acquire
 (A) equal and like charges
 (B) equal and unlike charges
 (C) unequal and like charges
 (D) unequal and unlike charges
- Q.13 The two objects rubbed against each other
 (A) will lose electrons
 (B) will gain electrons
 (C) one will lose and the other will gain electron
 (D) none of these

ANSWER KEY

1	D	2	C	3	A
4	A	5	C	6	B
7	D	8	B	9	C
10	C	11	C	12	B
13	C				