

Physics

1. A free proton and free electron are placed in a uniform field which of two are experienced greater force and a greater acceleration?
2. Two identical metallic spheres A and B having charges $+4q$ and $-10Q$ are kept a certain distance apart. A third identical uncharged sphere C is first placed in contact with sphere A and then with B., Then sphere A and B are brought in contact and then separated. Find charge on sphere A and B?
3. What is the electric flux through a cube of side 1 cm which incloses an electric dipole.
4. Write the expression for the electric field at a point to $X > R$ from the centre of shell?

Chemistry

1. Complete the following reactions :
 $C_2H_5Br = ?$
a. $C_2H_5Cl + Na = ?$ b. $C_2H_5ONa +$
2. How are the following conversions carried out :
hexachloride. a. Benzene in to benzene
b. Aniline in to fluorobenzene 3. What is meant by E1 and E2
reactions ? 4. Write any five chemical properties of alkyl halides . 5. What is meant by
resolution ?

English

Topic-Advertisement (lost/found)

Format-Description of the item,when/where, reward, contact address.

1. You have lost your passport at the airport. Write an advertisement for the lost and found column of a local daily newspaper.
2. You are Rahul /Reena. You have found some important documents in hard plastic cover in the metro train from Gurgaon to Malviya Nagar. Write a suitable advertisement for the lost and found column of a national daily in about 50 words. Specify details needed to return them.