WORK - SHEET -1

- 1. Who suggested the possibility of two types of charges?
- 2. What is meant by electrification by friction?
- 3. During electrification by friction, is there any transfer of mass?
- 4. "When a glass rod is rubbed with silk, the glass rod gets positively charged" why?
- 5. "There is force of repulsion between two like charges. But there is no force of repulsion between two masses" why?
- 6. Is it possible to charge a body first positively and then negatively by suitably rubbing with some other materials? If so, give an example.
- 7. From where do you get the energy for separating the charges?
- 8. Explain what is meant by the quantisation of charge.
- 9. A quark has a charge of (1/3) **e.** Do you think that this is against the law of quantisation of charge? Give reasons for your answer.
- 10. "Electric charge is conserved. But mass is not conserved." Why?
- 11. Explain why charges are transferred by the electrons?
- 12. What are the similarities and differences between Newtons law of gravitation and Coulomb's law?
- 13. A balloon is charged negatively by rubbing and then clings to a wall. Is it necessary that the wall is positively charged? Why does the balloon eventually fall?
- 14. If electrons were negatively charged and protons were positively charged what wou have happened?
- 15. "Free electrons are called electron gas" why?