

**PHYSICS (M. Marks : 07; Time : 20 mts.)**

1. What is charging by induction? What kind of charge does the other body acquire? (1)
2. What is an electroscope? (1)
3. What is the difference between static and current electricity? (1)
4. List two effects of an earthquake. (1)
5. What is the difference between epicenter and seismic focus? (1)
6. Explain how does a lightning conductor work. (2)

**CHEMISTRY (M. Marks : 07; Time : 20 mts.)**

1. Name the following: (¼x 4)
  - a) a metal that does not get corroded.
  - b) a compound which is added to petrol to prevent knocking of engine.
  - c) the gas which prevents blood from carrying oxygen.
  - d) the metal which is used for galvanization of iron.
2. What is the composition of solder and brass alloys? (½,½)
3. What are the harmful effects of the following? (½x2)
  - a) SPM
  - b) global warming.
4. a) Give uses of the following alloys: (½x2)
  - i) Bronze
  - ii) Duraluminb) Which two gases are responsible for the formation of acid rain? (½x 2)
5. Name the device that is used in latest cars to check air pollution. How does it work? (1)
6. What is meant by electroplating? Give one example. (1)

**BIOLOGY (M. Marks : 06; Time : 20 mts.)**

1. Fill up the blanks: (¼x4=1)
  - a) Rearing honeybee for honey is called as \_\_\_\_\_.
  - b) \_\_\_\_\_ is the nitrogen fixing bacteria in the root nodules of the leguminous plants.
  - c) Conversion of proteins into ammonia is called as \_\_\_\_\_.
  - d) A milch animal is one that yields \_\_\_\_\_.
2. Why should grains be dried before storage? (1)
3. Some fruits such as grapes are not peeled before eating. You are advised to be extra careful in cleaning such fruits. Why? (1)
4. Why do farmers generally use a mixture of manures and fertilizers in their fields? (1)
5. What is water logging? How does it harm the crops? (2)