

**DELHI PUBLIC SCHOOL
BOKARO STEEL CITY**

ASSIGNMENT FOR THE SESSION 2009-2010

Class : VIII

Subject : Science & Technology

Assign. No. 3

Section-A (Physics)

1. Give any three differences between stars and planet?
2. Are constellations members of our solar system? Explain.
3. What is the function of the ciliary muscles of the eye?
4. How is a rainbow formed? Explain.
5. Describe an experiment to show charging by induction.
6. List five safety measure against lightning strikes.
7. What are asteroids?
8. Why does a geo stationary satellite seem fixed above a point on the earth?
9. Mention two uses of a coil.
10. On what does the direction of the force applied by a magnet on a current carrying conductor depend?
11. What is the benefit of a horse shoe magnet?
12. What is refraction? Why does it occur?
13. What is a lens? Describe two types of common lens.
13. Explain in brief, what you understand by the accomodation of the eye.

Section-B (Chemistry)

1. Discuss about the formation of fossil fuels like coal and petrolium.
2. Explain exothermic and endothermic reaction with example.
3. Define the terms ignition temperature and calorific values in terms of combustion of fuels.
4. List two advantages and two disadvantages of using hydrogen as a fuel.
5. Why has Delhi government banned the running of buses on diesel within the city?
6. How is flame obtained on lightning a candle?
7. Why does luminous zone appear yellow?
8. "The sun is ultimate source of energy". Justify the statement.

9. Explain the following types of combustion with suitable examples.
 - a) Slow and rapid combustion.
 - b) Complete and incomplete combustion.
 - c) Spontaneous combustion & explosion.
10. Discuss about the important characteristics used to assign fuel as an ideal fuel. LPG is considered as an ideal fuel. Why?
11. What is the difference between pollutants and contaminants?
12. How does SPM affects adversely the plants and animals?
13. What do you understand by Threshold Limit Value, Acid rain & Green House Effect.
14. How does acid rain affect Taj Mahal? Explain with the help of chemical reaction.

Section-C (Biology)

1. Enlist different steps involved in agricultural practices.
2. What is a green manure? Write its advantages.
3. Why are earthworms called as farmer's friends?
4. Explain different ways of sowing of seeds.
5. Describe various ways of crop improvement.
6. What is transplantation? How is it advantageous?
7. Explain various ways of nitrogen fixation in biosphere.
8. Draw a neat and labelled diagram showing location of various endocrine glands.
9. Differentiate between the following
 - a) Asexual and sexual reproduction
 - b) External and internal fertilization
10. Draw a neat and labelled diagram of
 - i) Life cycle of frog
 - ii) Life cycle of butterfly
11. How is the sex of a child determined in the zygote?
12. Explain reproductive cycle in human female.
13. Describe the male reproductive system of human beings.
14. Draw a neat and labelled diagram of female reproductive system of human beings.
15. Write the pubertal changes in boys.
16. What are test tube babies? Explain

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