

**PON VIDYASHRAM GROUP OF CBSE SCHOOLS**

**HALF YEARLY WORKSHEET 2017--2018**

**STD : X**

**SUBJECT : BIOLOGY**

**NAME OF THE LESSON: CONTROL AND COORDINATION**

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**I. ANSWER IN ONE OR TWO SENTENCES:**

1. Name the largest part of human brain and which part maintains posture and equilibrium?
2. Define Nastic Movement.
3. If a ripe fruit is placed in a basket of raw fruits, it hastens the ripening of raw fruits. How?
4. What are receptors for taste and smell called?
5. Which plant hormone acts as a growth inhibitor and which hormone promotes growth?
6. Name the two main components of Vertebrate Nervous System.
7. How is the secretion of hormones regulated?
8. Give the difference between sensory and motor nerves.
9. Explain the cause of shoots of the plant bending towards sunlight.
10. Define reflex action.

**II. GIVE BRIEF ANSWERS:**

1. What is feedback mechanism?
2. Give protective features of the nervous system.
3. What are the functions regulated by forebrain?
4. Give the characteristics of hormones.
5. What is the role of adrenal hormone that is secreted and released in the blood?
6. Write three main differences between auxin and cytokinin.
7. What are the steps involved in reflex action?
8. Name the gland and the hormone secreted by the gland, associated with the following:
  - a. A girl has grown extremely tall
  - b. A woman has swollen neck.
9. Write the functions of Medulla Oblongata
10. Which hormone is released when sugar level rises? Name the organ which produces this hormone and its effect on blood sugar level.

**III. GIVE DETAIL ANSWER:**

1. What is the difference between nervous and endocrine systems?
2. Name the different parts of the forebrain and mention its functions
3. Define tropism. Explain four types of tropism with one example each.
4. What is phototropism? Describe an activity to demonstrate it.
5. Draw and label :
  - a. A neuron
  - b. Human brain
  - c. Neuromuscular junction

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**NAME OF THE LESSON: MANAGEMENT OF NATURAL RESOURCES**

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**I. ANSWER IN ONE OR TWO SENTENCES:**

1. Why was coliform bacteria chosen to indicate the presence of pollution in Ganga? Mention two factors that indicate its pollution.
2. How does mining disturb ecological balance?
3. Mention one drawback of monoculture.
4. Industrialization is one of the major causes of deforestation. State two reasons.
5. Mention the two areas emphasized by watershed management.
6. Evaluate the environmental problems caused due to large dams.
7. List four products formed by burning of coal.
8. Why are forests called Biodiversity Hotspots?

**II. ANSWER IN BRIEF:**

1. State long term perspectives of management of natural resources.
2. Illustrate the role of Chipco Movement in forest conservation.
3. Name the ancient water harvesting structures in Maharashtra.
4. Mention any two factors responsible for the neglect of local irrigation methods.
5. List three merits of watershed management.

**III. ANSWER IN DETAIL:**

1. List the four stakeholders of a forest.
2. What are fossil fuels? Why it should be used judiciously?
3. Mention the steps taken by West Bengal government to protect badly degraded sal forest.
4. What is rain water harvesting? How can it be done at local level and what are the benefits?
5. List the advantages and disadvantages of dams.

**NAME OF THE LESSON: HOW DO ORGANISMS REPRODUCE?**

**I. ANSWER IN ONE OR TWO SENTENCES:**

1. "Variations" are seen in the organisms. State the two main causes.
2. Can you consider cell division as a type of reproduction in unicellular organisms? Explain with an example.
3. How do Plasmodium and Leishmania reproduce?
4. Name the parts where the germ cells of a flower are located.

5. Name the tube that connects the mother to the foetus. Mention its functions.
6. Mention the role of urethra in human male reproductive system.
7. What are the differences between pollination and fertilization.
8. What is vegetative reproduction? What are its benefits?

## **II. ANSWER IN BRIEF:**

1. How is placenta designed to give nutrition to the growing embryo?
2. How can AIDS be prevented?
3. Explain how DNA content is maintained during the process of reproduction.
4. Where do the following take place in female reproductive organ of human?
  - a. Production of egg.
  - b. Fertilisation.
  - c. The site of development of embryo.
5. Why are the testes located outside the abdominal cavity?
6. Differentiate between:
  - a. Pollen tube and style
  - b. Bud of hydra and bud of bryophyllum.
  - c. Vegetative reproduction and spore formation.
7. What is meant by menstruation? Why does it take place?
8. One of the common contraceptive measures is to use copper-T.
  - a. In which part is it used?
  - b. Does this method have side effect? Mention it.
  - c. Suggest any other contraceptive measure.
9. Name an organism that reproduces by spores. List the advantages.
10. Name any two sexually transmitted diseases each caused by virus and bacteria. Suggest a method to prevent these diseases.

## **III. GIVE DETAIL ANSWER:**

1. Describe any three methods of asexual reproduction in living organisms. List four advantages.
2. Draw the longitudinal section of a flower and name the parts.
3. Illustrate the following with the help of a suitable diagram:
  - a. Regeneration in Planaria.
  - b. Budding in Hydra.
4. What is STD? Name four such diseases.
5. Draw the male and female reproductive systems and label their parts.