

BRAIN INTERNATIONAL SCHOOL
REVISION SHEET (PT4) 2018-19
CLASS IX

TERM II

BIOLOGY

DEC'18

CHAPTER 5 : THE FUNDAMENTAL UNIT OF LIFE

1. Make a comparison and write down ways in which plant cells are different from animal cells.
2. What would happen if
 - (i) the plasma membrane ruptures
 - (ii) there was no Golgi apparatus
 - (iii) lysosome ruptures near nucleus
 - (iv) plant cell is placed in Hypertonic solution
 - (v) ribosomes are removed from cell
3. What is phagocytosis or endocytosis / Explain with an example .
4. Define Osmosis ,plasmolysis and repleasmolysis .
5. Identify the single celled organisms from the following – cockroach ,bacteria ,snake , chlamydomonas.
6. Draw a neat and labelled diagram of plant cell or Animal cell .
7. Chloroplast and mitochondria are referred as semi –autonomous organelles .Justify .
8. What is the main function of each of the following cell components –
Plasma membrane ,cell wall ,mitochondria ,chloroplast , lysosomes, golgibodies , vacuole , endoplasmic reticulum ,centriole ,chromosomes ,nucleus
9. Name the physiological process involved in the following –
 - (i) fishes respire using oxygen dissolved in water
 - (ii) shrinkage of fingers skin on continuous washing of cloths , swimming
 - (iii) bacteria spreads in air on coughing
10. Write postulates of cell theory.

CHAPTER 6 : TISSUES

1. What is the importance of tissues in multicellular organisms ?
2. Write a short note on Meristematic tissues .
3. How are simple tissues different from complex tissues in plants ?
4. Compare parenchyma , collenchymas and sclerenchyma.
4. Name the transporting tissues in plant body ,write their components and function also.
5. Write functions of Epidermis ,cork and stomata
6. Compare different types of Simple epithelium and give their location also .
7. Differentiate between(i) various types of Muscles(ii) Blood and lymph (iii) Bone and Cartilage .
8. Draw a labelled diagram of a neuron and define Synapse .
9. Identify the type of tissues in the following –
Vascular bundles, inner lining of the intestine , lining of kidney tubule , iris of the eye, pinna of the ear , oesophagus , inner lining of mouth , stores fat in our body , in the brain , skin ,bark of the tree ,ear pinna ,connecting bone to bone ,
10. Water hyacinth floats on water surface .Name the tissue due to which this is possible .

CHAPTER 7 : DIVERSITY IN LIVING ORGANISMS

1. Why do we classify organisms?
2. Explain the basis for grouping organisms into 5 kingdoms
3. Arrange the following in correct sequence from lowest to highest level ;

Phylum-genus-family - order- class-species- kingdom

4. Why bryophytes are called the amphibians of the plant kingdom ?
5. Why do we place snake and turtle in the same class?
6. Differentiate between the following ;
 - (i) Cryptogamae and phanerogamae
 - (ii) Monocots and Dicots
 - (iii) Diploblastic and Triploblastic
 - (iv) Thallophyta and Bryophyta
 - (v) cryptogames and phanerogames
 - (vi) invertebrates and vertebrates
7. Define the following terms - Notochord ,Bilateral symmetry, coelom or body cavity,Pentamerous flower ,Metamerical segmentation ,Haemocoel ,open circulation
8. Write characteristics of class pisces .
9. Define classification .Who proposed Binomial Nomenclature ?What criteria you will follow to write scientific name of any living organism ,explain giving example .
- 10 . Reema observed an organism coming out of burrow with soft ,moist body with ring like segments on it and crawling .To which phylum she would place that organism and why ?

CHAPTER 15 : IMPROVEMENT IN FOOD RESOURCES

1. Define the term Hybridization , photoperiod, biofertilizer , organic farming ,fertilizer .
2. Why bee keeping should be done in good pasturage ?
3. Differentiate between compost and vermicompost .
4. What are weeds ?How they influence crop plants ?Give examples of weeds .Describe the ways to get rid of weeds from field .
5. What do you mean by roughage and concentrates in terms of cattle feed?
6. What is composite fish culture ?Mention its advantages and disadvantages .
7. Describe various abiotic and biotic factors which harms stored grains .
8. How do pest causes harm to crop yield ?
9. What are Broilers and Layers ?
10. Describe the criterias for which crop variety improvement is done ?
- 11 Define intercropping ,crop rotation and mixed cropping .

CHAPTER 14: NATURAL RESOURCES

1. List three human activities which increases carbon di oxide content in air .
2. What are biogeochemical cycles ?
3. Draw a neat and labelled diagram of –
 - (i) Nitrogen cycle
 - (ii) Carbon cycle
 - (iii) Water cycle
 - (iv) Oxygen cycle
4. What is green house effect ? Mention ex of green house gases.
- 5, How is ozone layer is cause of concern for the whole world?
6. What are the ways by which water bodies gets polluted by human activities ?
7. What is soil erosion ? How it can be checked ?
8. How is soil formed by the action of water ,sun ,wind and living organisms.
9. How can you detect the presence of air pollutants by observing vegetation?
10. Why life is possible on the earth ?

CHAPTER 12: WHY DO WE FALL ILL

1. What are antibiotics ?
2. If you are going to the hospital to meet your friend suffering from malaria ,what are the chances of malaria spreading to you and your friends ?
3. Distinguish between infectious and non infectious diseases ?
4. Name the diseases caused by bacteria ,protozoa ,fungi ,viruses and worms(two each) .
- 5 What is the principle of immunization ?

6. How do antibiotics perform their action to control bacteria ?
7. What is the principle of immunization ? How it is achieved , explain giving example.
8. What are the symptoms of the disease when microbes enter through air and water ?
9. How are diseases spread from an infected person to a healthy individual ?
10. Name a few vaccines which are given to boost up the immunity of a child .