

DELHI PUBLIC SCHOOL JAMMU
ASSIGNMENT
PERIODIC TEST- I (2017-2018)

Class: 11

SUB: BIOLOGY

Topics: The living world, biological classification, plant kingdom and animal kingdom, Morphology of flowering plants, structural organization of plants, animal tissue, cell, biomolecules, cell division, transportatation in plants and mineral nutrition.

General instructions

All questions are compulsory. Question number one to three carry one mark each, question numbers four to six carry two marks each, question numbers seven and eight carry three marks each and question number nine carry five marks.

Q1: What do you mean by taxonomical hierarchy?

Q2: Define the terms bioluminescence?

Q3: What do you mean by perianth?

Q4: In which organism's diatomaceous earth is present? Write short note in nutrition in euglena.

Q5: List some important features of various fungal classes.

Q6: What do you mean by germ layers and symmetry in animals?

Q7: What do you mean by cell division? Differentiate between mitosis and meiosis.

Q8: What do you mean by aestivation? Write short note on various types of aestivation in plants.

Q9: Explain the life cycle of angiosperms. Draw a well labeled diagram of an angiosperm embryo sac.

Q10: Explain with the help of diagram the internal structure of a dicot stem.

Q11: What is the composition of plant cell membrane? List four important functions of plant cell membrane.

Q12: What do you mean by zwitterions' structure of amino acid? On what basis amino acids are classified.

Q13: Why enzymes are called as biocatalysts? Write short note on various classes of enzymes.

Q14: What do you mean by phosphodiester bond? Differentiate between DNA and RNA.

Q15: What do you mean by nutrient? List some important functions and deficiency symptoms of calcium magnesium and sulphur.

Q16: Why transpiration is necessary in plants. List various advantages and disadvantages of transpiration.

Q17a: Define guttation. Differentiate between plasmolysis and deplasmolysis.

b) Explain various theories given for the ascent of sap in plants.

Or

What do you mean by water potential? What are the types of diffusion? List various factors affecting diffusion.

Q18: What do you mean by nitrogen fixation? Explain the process of nitrogen fixation in detail.

Or

Why are leguminous crops grown to provide nitrogen to the soil? What do you mean by ammonification, nitrification and denitrification? Name the organism that helps in these processes.