THE INDIAN SCHOOL, KINCDOM OF BAHRAIN

HOLIDAY ASSIGNMENT - 2013

BIOLOGY-IX

- A. Practice all the diagrams given in the text book.
- B. Practical portions-
 - Expt 1. Onion peel cells
 - Expt 2. Human cheek cells
 - Expt 3. Food test
 - Expt 4. Plant tissues
 - Expt 5. Animal tissues
 - Expt 6. Osmosis
- C. Go through all these experiments and question answers given in the lab manual and prepare from MCQ text book
- D. Work out the chapter wise assignments and the following questions taken from board papers and submit on opening day.
- 1. Name the plant tissues found in the husk of a coconut and identify the chemical responsible for its stiffness.
- 2. Give an example of an Indian and a foreign poultry breed. Mention any desirable trait expected from crossing different breeds.
- 3. What happens to an animal cell when it is placed in a very dilute external medium? Why?
- 4. What are the two ways of obtaining fish?
- 5. Name the plastid involved in conversion of a green tomato to red.
- 6. Show the location of meristematic tissues in a plant diagrammatically.
- 7. Draw a labelled diagram of the muscle tissue which mever shows fatigue.
- 8. Name the connective tissue which helps in repair of tissues. State where this tissue is found.
- 9. Name the process through which Amoeba acquires food.
- 10. A student performs an experiment by placing the de-shelled egg in a concentrated salt solution for 5 minutes. What changes did he observe in the egg? Give reason for the same.
- 11. As plants grow older, the outer protective tissue of the stem changes into cork. How does this happen? List two salient features of cork.
- 12. Name the kinds of muscles found in your limbs and lungs. How do they differ from each other structurally and functionally?

Multiple choice questions

- The features that best describes the cells of parenchyma cells are:
 - (a) Dead cells, thick walled, no intercellular spaces
 - (b) Living cells, thin walled, no intercellular spaces
 - (c) Dead cells, thin walled, large intercellular spaces
 - (d) Living cells, thin walled, large interedililar spaces
- The appearance of magenta colour on adding conc. HCl to a given sample of solution of dal confirms the presence of
 - a) agremone oil in the dal
 - b) Potassium dichromate in the dal
 - c) Saw dust in the dal
 - d) Metanil yellow in the dal
- 3. While preparing a temporary mount off the check wells, the reason behind staining the cells is

- a) To prevent the cells from drying quickly
- b) To preserve them
- c) To disinfect them
- d) To make the organelles clearly visible.
- 4. A slide given to you for identification consists of long narrow dead cells which have thick boundaries. Under which tissue would you place them?
 - a) Sclerenchyma b) Collenchyma c) Parenchyma d) Meristematic
- Meena mounted an onion peel and observed with the help of the compound microscope.
 The components of the cell which would be seen are:
 - a) Plasma membrane, mitochendria, nucleus:
 - b) Cell wall, nucleus, golgi apparatus
 - c) Cytoplasm, nucleus, plasma membranes
 - d) Cellwall, cytoplasm, nucleus
- 6. A student soaked 10 g raisins in 75 ml of distilled water in two beakers A and B. He maintained the beaker A at 20°c and the beaker B at 40%. After an hour, the percentage of water absorbed will be:
 - a) Same in beaker A and B
 - b) More in A than in B
 - c) More in B than in A
 - d) Twice as much in B as in A
- 7. The cell body of a nerve cell is called:
 - a) Cyton b)axon c) neuron d) dendrite