

SUMMATIVE-I WORKSHEET (SESSION 2013-14)

CLASS: IX

SUBJECT: BIOLOGY

ONE MARK QUESTIONS:

1. Which organelle releases energy in the form of ATP?
2. Name the connective tissue which forms a packing material between the organs of the body.
3. What are macro nutrients and micronutrients?
4. Name 2 exotic breeds of cattle.
5. How does RER differs from SER?
6. Define plant breeding.
7. Expand a) ATP b) DNA
8. Name 2 common weeds that grow with wheat and paddy.
9. Which organelle is responsible for detoxifying poisons and drugs in vertebrates?
10. Name 2 semiautonomous organelles.

TWO MARK QUESTIONS:

1. Draw a neat labeled diagram of cell found in spinal cord.(nerve cell-neuron)
2. Define the terms a) composite fish culture b) crop rotation.
3. Differentiate between ligament and tendon.
4. a) Name the plant tissue which lacks vacuole?
b) Give an example of osmosis that takes place naturally in nature.
5. Why is it advisable to grow legume crop between 2 cereal crops?
6. Name one indigenous and one exotic breed of fowl.
7. Why plasma membrane is called selectively permeable membrane. How do substances like CO₂ and H₂O move in and out of cell?
8. Give difference between Bone and Cartilage, Blood and Lymph.
9. What will happen to plant cell if it is kept in a hypertonic solution.
10. Distinguish between Eukaryotic and prokaryotic cell.

THREE MARK QUESTIONS:

1. Draw a labeled diagram of Animal cell.
2. Mention the hazards of using fertilizers.
3. What are plastids mention the 3 types of plastids and their functions.
4. Differentiate between Parenchyma, Collenchyma and Sclerenchyma.
5. Compare the use of manures and fertilizers in maintaining soil fertility.
6. What are the differences between Broilers and Layers with respect to their purpose of breeding and daily food requirement? What necessary steps have to be taken to prevent the occurrence of infections in poultry farm?
7. Write about the structure and function of nucleus.
8. How many types of meristems are present in plants, on the basis of position.
9. How do cardiac muscle differ from Voluntary and Involuntary muscle in structure and function.
10. What are the functions of a) mitochondria b) chromosome c) lysosome.

FIVE MARK QUESTIONS:

1. Name any two types of permanent tissues and complex tissues write the functions of each in detail.
2. When a de-shelled egg is placed in concentrated salt solution for sometime what happens? Why?
3. i) What is meant by Bee- keeping?
ii) What are the important considerations to obtain higher yield of honey?
iii) Which variety of bee is commonly used for commercial honey production, write one important property of this variety.
4. a) What is mixed cropping? What are its advantages?
b) What are the different ways by which insect pest attack the plants?
c) What is green manure?
5. Identify the type of tissue in the following

i) Heart (ii) Duct of salivary gland (iii) Vascular Bundles (iv) Larynx (v) Bark of tree (vi) Skin

(vii) Connects bone to muscle (viii) have fluid matrix (ix) stores fat (x) intestine.

MULTIPLE CHOICE QUESTIONS:

1. Which one fish is the surface feeder?
a) Rohu (b) Mrigal (c) common carp (d) catla
2. Adulteration of food item is
a) Punishable under law
b) Pardonable under law
c) not considered a legal offence
d) not considered an offence at all.
3. Lignin deposit are found in walls of
a) Collenchyma (b) Parenchyma (c) Sclerenchyma (d) striated muscle
4. Human cheek cells are
a) Rectangular (b) round (c) irregular (d) spindle shaped.
5. Seema was asked to identify tissue on a give slide the cells are long, branched and multinucleated the cells are
a) Striated (b) smooth muscle (c) Cardiac muscle (d) none
6. Onion peel should be stained for
a) 30min (b) one hour (c) 2-3 min (d) 10 sec
7. Acid used to detect the presence of metanil yellow in sample of tur dal is
a) HNO_3 (b) HCl (c) H_2SO_4 (d) COOH-COOH
8. Animal cells are commonly stained with
a) Methylene blue (b) Safranin (c) phenolphthalein (d) Iodine solution

9. Food sample ideal for starch test is
a) Dal (b) Mustard (c) Rice (d) Sugar
10. For observing plant tissue stain generally used is
a) Methylene blue (b) Safranin (c) phenolphthalein (d) Glycerine
11. The colour that indicates that Dal is adulterated with metanil yellow is
a) Red (b) Pink (c) Brown (d) Crimson
12. Temporary mount of a living organism is made in
a) Alcohol (b) acetone (c) glycerine (d) wax
13. The muscle that never fatigues is
a) Striated muscle (b) cardiac muscle (c) un striated muscle (d) none
14. On a slide mounting of the material should be done
a) On the left side (b) on the right side (c) in the centre (d) in the corner
15. Carbohydrates are stored in human body as
a) Starch (b) Glucose (c) glycogen (d) Sucrose.
