

TEST – NO. 8**CH – 8****BIOLOGY****Time Allowed: 15 Minutes****CLASS 9TH – 019****Paper: (Objective Type)****Maximum Marks: 12**

Note : Write answers to the questions on the objective answer sheet provided. Four possible answers A, B, C and D to each question are given. Which answer you consider correct, fill the circle in front of A, B, C or D with pen ink to each question on the answer sheet provided.

Q.1	QUESTIONS	(A)	(B)	(C)	(D)
1.	Deficiency of which element cause yellowing of leaves?	Zinc	Magnesium	Copper	Chlorine
2.	Every animal takes food, whose 2/3 part consists of	Proteins	Carbohydrates	Minerals	Vitamins
3.	It helps in blood clotting.	Calcium	Phosphorus	Nitrogen	Sodium
4.	Fat soluble vitamins are.	A,B,C,D	A,D,I,K	A,C,E,K	B,C,E,D
5.	How much % of lipid is present in Milk?	10%	12%	0.9%	04%
6.	Proteins are composed of	Fatty acids	Acetic Acid	Amino acids	Minerals
7.	Elimination of undigested food from the body is called.	Ingestion	Absorption	Digestion	None of these
8.	One gram of carbohydrates has kilo calorie energy.	2	4	6	8
9.	Which one of the following organs is part of digestive system?	Lungs	Oral cavity	Kidneys	Heart
10.	The largest gland of human body is.	Pancreas	Thyroid	Liver	Parathyroid
11.	Rickets develops due to deficiency of ___ vitamin.	B	A	D	C
12.	Bread contains amount of carbohydrates	40%	30%	52%	70%

A B C D**A B C D****A B C D****A B C D****A B C D**

1	(A) (B) (C) (D)	4	(A) (B) (C) (D)	7	(A) (B) (C) (D)	10	(A) (B) (C) (D)	13	(A) (B) (C) (D)
2	(A) (B) (C) (D)	5	(A) (B) (C) (D)	8	(A) (B) (C) (D)	11	(A) (B) (C) (D)	14	(A) (B) (C) (D)
3	(A) (B) (C) (D)	6	(A) (B) (C) (D)	9	(A) (B) (C) (D)	12	(A) (B) (C) (D)	15	(A) (B) (C) (D)

نوٹ: معروضی سوال نامے کو توجہ سے پڑھیں اور ہر MCQ کی درست آپشن A, B, C, D کو پین کی سیاہی یا مارکر سے اس طرح پُر کریں کہ سیاہی دائرے سے باہر نہ نکلے۔ ایک سے زیادہ دائروں کو پُر کرنے یا کاٹ کر پُر کرنے کی صورت میں مذکورہ جواب غلط تصور ہوگا۔

TEST-8
CH – 8
BIOLOGY

Time Allowed: 1:45 hours

CLASS 9TH – 019

Paper: (Essay Type)
Maximum Marks: 48

(PART – I)

2. Write short answers to any FIVE (5) questions: **10**

- (i) What are macronutrients? Give example.
- (ii) What is difference between Organic and inorganic fertilization.
- (iii) What is a balance diet.
- (iv) What are dietary fibres?
- (v) Define epiglottis and glottis?
- (vi) What is marasmus?
- (vii) What is Protein-energy malnutrition?
- (viii) Why meat is not a good source of vitamin C?

3. Write short answers to any FIVE (5) questions: **10**

- (i) What is difference between Autotrophs and Heterotrophs?
- (ii) What are lipids? Also describe types of fatty acids.
- (iii) What is function of Calcium and Iron in Human body.
- (iv) What are water soluble vitamins? Give two examples.
- (v) Write any four symptoms of deficiency of vitamin C.
- (vi) Name two diseases caused by the deficiency of Minerals.
- (vii) How will you differentiate between bolus and chyme?
- (viii) Write any two functions of large intestine.

4. Write short answers to any FIVE (5) questions: **10**

- (i) Write three parts of large intestine.
- (ii) What is Diarrhoea? What are its causes?
- (iii) What three parts of large intestine.
- (iv) What are vitamins?
- (v) What is difference between nutrition and nutrients?
- (vi) Define Fat-soluble vitamins.
- (vii) What is meant by digestion?
- (viii) Define Nutrition.

(PART – II)

Note: - Attempt any TWO questions.

5. (a) Define macronutrients and micronutrients. Explain mineral requirements of plants in detail. **5**

(b) What is the role of nitrogen and magnesium of plant growth? **4**

6. (a) Describe the role of Calcium and iron in our diet. **5**

(b) Write a note on digestion of Food in Stomach. **4**

7. (a) What are water and dietary fibres considered important of our diet. **5**

(b) What is Ulcer? Describe causes and symptoms. **4**

Test-8

CH- 8

Biology

(Class 9th)

(Part 1)

2. Write Short Answers to any five (5) Questions:

1: What are macronutrients? Give Example.

A The nutrients which are required in large quantities are called macronutrients.

ii) What is difference between organic and inorganic fertilization.

(A) The distinction between the organic and inorganic fertilized fertilizers is not always clear-cut. Urea, for example, is an organic compound, but chemically synthesized urea is generally grouped with inorganic fertilizers.

iii) What is a balance diet?

(A) A balance diet may be defined as the one which contains all the essential nutrients in correct proportion for the normal growth and development of body.

iv What are dietary fibers?
Dietary fibre (also known as "roughage") is the part of human food that is indigestible. It is found only in plant foods and it moves undigested through Stomach and small intestine and into colon.

v Define epiglottides and Glottides?

(A) Epiglottides

Small flap at the back of the tongue; it closes the glottis when we swallow so that food does not go down into trachea.

Glottides

The glottides is the opening between the vocal folds.

vi What is marasmus?

(A) Usually develops between the ages of six months and one year, patients lose all their body fat and muscle strength, and acquire a skeletal appearance.

viii What is protein-energy malnutrition?

(A) Protein energy malnutrition means inadequate availability or absorption of energy and proteins in the body. It is the leading

Cause of death in Children in developing countries. It may lead to diseases such as Kwashiorkor and Marasmus.

viii) Why meat is not a good source of vitamin C?

(A) Minute quantities of vitamin C are present in muscles. Since meat consists of muscles so it is not a good source of vitamin C.

(3) Write short answers to any five (5) Questions?

(i) What is difference between Autotrophs and Heterotrophs?

Autotrophic organisms obtain water, Carbon dioxide and minerals from their environment and prepare their food which is then used for growth and energy.

Heterotrophs:

Heterotrophic organisms obtain their food from other organisms and use it for growth and energy.

(ii) What are lipids? also describe types of fatty acids?

(A) The lipids present in food are composed

of fatty acids bonded to glycerol. The fatty acids of lipids may be saturated or unsaturated.

Saturated.

Fatty acids have all the of their carbon atoms bonded to hydrogen atoms.

Unsaturated

Fatty acids have some of their carbon atoms double-bonded in place of a hydrogen atoms.

(iii) What is function of calcium and iron in human body.

(A) Calcium is essential for the development and maintenance of bones and teeth. It is also needed for maintaining cell membranes and connective tissues and for the activation of several enzymes.

i Calcium also aids in blood clotting. Iron plays a major role in oxygen transport and storage. Iron also supports immune function.

(iv) What are water soluble vitamins? Give two examples.

(A) A vitamin is an organic molecule that is an essential micronutrient that an organism needs in small quantities for the proper functioning of its metabolism. (Vitamin B1) (Vitamin B2) are examples.

(v) write any for symptoms of deficiency of vitamin C?

(A) symptoms of scurvy include muscle and joint pain, Swollen and bleeding gums, slow wounds healing, and dry skin.

(vi) Write Two diseases cause by the deficiency of minerals.

An increased need for the mineral, lack of the mineral in the diet, or difficulty absorbing the mineral from food are some of the more common reasons. Mineral deficiencies can lead to a variety of health problems. weak bones, Fatigue

(vii) How will you differentiate between bolus and Chyme?

(A) Bolus

During the processes of chewing, lubrication and semi-digestion, the pieces of food are rolled up by the tongue into small slippery, spherical mass called bolus
Chyme

The Starch in our bite of bread and protein in mutton have been partially digested and the food has been converted to soup-like mixture called chyme.

(viii) write any Two functions of large intestine.

(A) When the digested food enters into the

large intestine, the water is absorbed from it and enters into the blood.

(ii) Faeces is stored in the rectum, a part of large intestine.

(4) Write short answers to any five(5) Question.

(i) Write Three part of large intestine

(A) It has Three parts; Caecum (or pouch that forms the T-junction with small intestine), colon and rectum. From colon, water is absorbed into blood.

(ii) What is diarrhoea? What are its causes?

(A) Diarrhoea is a condition in which the sufferer has frequent watery, loose bowel movements. This condition may be accompanied by abdominal pain, nausea and vomiting. It occurs when required water is not absorbed in blood from colon. The main cause of diarrhoea includes lack of adequate safe water. Viral or bacterial infections of large intestine.

(iv) What three part of large intestine?

(Ans) The large intestine consists of the

aeocom and Codon and also Yectom.

(iv) What are Vitamins?

(A) Vitamins are the Chemical Compounds that are required in low amounts but are essential for normal growth and metabolism.

(v) What is difference between nutrititions and nutrition?

(A) Nutrition

The process in which food is obtained or Prepared, absorbed and converted into body Substances, for growth and energy is called nutrition.

Nutrients

Nutrients are the elements and Compounds that an organism obtains and uses for energy or for the synthesis of new materials.

(vi) Define fat soluble vitamins;

(A) Fat soluble vitamins are much less excreted from the body as compared to water-soluble vitamin.

(vii) What is meant by digestion?

(A) The process of breaking up complex substances into simpler substances.

(viii) Define nutrition.

The process in which food is obtained

or prepared absorbed and converted into body substance for growth and energy is called nutrition.

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Note:- Attempt any Two questions.

5. (a) Define macronutrients and micronutrients. Explain mineral requirements of plants in detail.

(A)

Macronutrients

Role in plant life

Phosphorus	Component of ATP, nucleic acids, and Coenzymes, necessary for seed germination, photosynthesis, protein formation etc
Potassium	Regulates the opening and closing of the Stoma, reduces water loss from the leaves
Sulphur	Component of proteins, vitamins and enzymes
Calcium	Activates enzymes, is a structural component of cell wall, influences water movement in cells.

Micronutrients

Role in plants life

Iron	Necessary for photosynthesis, activates many enzymes
Molybdenum	Component of the enzymes that

reduces nitrates to ammonia,
important in building amino acids
Boron important in sugar transport, cell division
and synthesizing certain enzymes
Copper component of several enzymes
Manganese involved in enzymes activity for
photosynthesis, respiration, and nitrogen
metabolism
Zinc Required in a large number of enzymes
Chlorine involved in osmosis of water
Nickel Required in a nitrogen metabolism

(B) What is the role for nitrogen and magnesium of plant growth?

A Plants get nitrogen in the form of nitrates. Nitrogen is a major component of proteins, hormones, chlorophyll, vitamins and enzymes essential for plant life. Nitrogen metabolism is a major factor in stem and leaf growth. Too much nitrogen can delay flowering and fruiting. Deficiencies of nitrogen can reduce yields, cause yellowing of the leaves and stunt growth.

Magnesium is a structural component of chlorophyll. It is also necessary for the functioning of plant enzymes to produce carbohydrates, sugars and fats. It is used for fruit and nut

formation and essential for germination of seeds. Deficiency of magnesium causes yellowing and wilting of leaves.

6(a) Describe the role of calcium and in our diet.

Calcium is essential for the development and maintenance of bones and teeth. It is also needed for maintaining cell membranes and connective tissues and for the activation of several enzymes. Calcium also aids in blood clotting. Humans get calcium from milk, cheese, egg yolk, beans, nuts, cabbage etc. Deficiency of calcium causes spontaneous discharge of nerve impulses which may result in tetany, bones also become soft, blood clots slowly and wounds heal slowly.

Iron plays a major role in oxygen transport and storage. It is a component of haemoglobin in red blood cells and myoglobin in muscle cells. Cellular energy production also requires iron. Iron also supports immune function. Humans get iron from red meat, egg yolk, whole wheat, fish, spinach, mustard etc. Its deficiency is the most common nutrient deficiency worldwide. Iron deficiency causes anaemia.

(b) Write a note on digestive of food in stomach.

A. Stomach is a dilated of alimentary Canal. It is J-shaped, located in left of abdomen, just beneath diaphragm. Stomach has two main portions, Cardiac Portion of Stomach is present immediately after oesophagus and pyloric portion is located beneath Cardiac portion. Stomach has two Sphincters (openings which are guarded by muscles) Cardiac sphincter is between Stomach and oesophagus while pyloric sphincter is between Stomach and small intestine. Bolus enters Stomach from oesophagus through Cardiac Sphincter. When food enters Stomach, the gastric glands found in the Stomach wall are stimulated to secrete gastric juice. Gastric juice is composed chiefly of mucus, hydrochloric acid, and a protein-digesting enzyme pepsinogen. Hydrochloric acid converts the inactive enzyme pepsinogen into its active form i.e. pepsin. HCl also kills microorganisms present in food. Pepsin partially digests the protein portion of food (bulk of mutton into polypeptides

and shorter peptide chains. In stomach, food is further broken apart through a process of churning. The walls of stomach contract and relax and these movements help in thorough mixing of gastric juice and food. The churning action also produces heat which helps to melt the lipid content of food.

The starch in our bite of bread and the protein in mutton have been partially digested and the food has been converted to a soup-like mixture called chyme. After it the pyloric sphincter allows a little mass of chyme to enter duodenum.

79) What are water and dietary fibres considered important of our diet.

(A) Strictly speaking, water and dietary fiber are not considered as nutrients, but they do play important role of life.

WATER

Approximately 60% of the adult human body is composed of water. Nearly all life sustaining chemical reactions required an aqueous (watery) environment. Water also functions as the environment in which water-soluble food stuff is absorbed

in the intestines and the waste products are eliminated in urine. Another essential role of water is to maintain body temperature through evaporation, as in sweating. Severe dehydration may result in cardiovascular problems. The estimated water requirement of an average adult is two liters per day. Important sources of daily water intake are natural water, milk, juicy fruits and vegetables.

DIETARY FIBRE

Dietary fibre (also known as 'roughage') is the part of human food that is indigestible. It is found only in plant foods and moves undigested through stomach and small intestine and into colon. The insoluble dietary fibre travels quickly through small intestines. Its sources are wheat bran, cereals and skins of many fruits and vegetables. The soluble dietary fibre breaks down as it passes through alimentary canal. Its sources are oats, beans, barley, and many fruits and vegetables.

Fibre prevents and relieves constipation

by stimulating the contraction of intestinal muscles. Avoiding constipation reduces the risk of many other diseases. Soluble fibers help in lowering blood cholesterol and sugar levels. Insoluble fibre speeds up the movement of carcinogens (cancer causing agents) from intestine.

(b) What is ulcer? Describe Causes and Symptoms?

Ulcer:

Ulcer (peptic ulcer) is a sore in the inner wall of gut (in oesophagus, duodenum or stomach). In ulcer, the acidic gastric juice gradually breaks down the tissue of the inner wall. Ulcer of stomach is called gastric ulcer. The causes of ulcer include excess acid, infection, long term use of anti-inflammatory medicines (including aspirin), smoking, drinking coffee, colas and eating spicy food.

The signs and symptoms of ulcer include abdominal burning after meals or at midnight. Severe ulcer may cause abdominal pain, rush of saliva after an episode of regurgitation, nausea, loss of appetite and weight.

Loss. Ulcer is treated with medicines, which neutralize the acidic affects of gastric juice, spicy, acidic foods and Smoking should be avoided as preventive measures.

(b) What is Ulcer? Describe Causes and Symptoms?

Ulcer (peptic ulcer) is a sore in the inner wall of the stomach or duodenum or in the small intestine. In ulcer, the acidic gastric juice gradually breaks down the tissue of the inner wall. Ulcer of stomach is called gastric ulcer. The causes of ulcer include excess acid, infection, long term use of anti-inflammatory medicines (including aspirin), smoking, drinking coffee, color and eating.

