



# FUSCO'S SCHOOL (ICSE)

Indiranagar, Bangalore

Half Yearly Examination 2016-17

Subject: Biology

Class: VII

Marks: 80

Time: 2hrs

## SECTION-I (40 marks)

Attempt all question from this section

### Question-1

a. Name the following:

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1. The minute openings on the surface of a leaf.
2. The disease caused due to the Deficiency of iodine.
3. The pigment found in RBCs.
4. The teeth which helps in tearing flesh.
5. The organ where bile juice is stored.

b. Write 'true or 'false' against the following statement. Correct the false statement:

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1. Saliva contains pepsin.
2. Starch is the immediate product of photosynthesis.
3. Iron is responsible for blood formation.
4. Carbon dioxide enters leaf through stomata.
5. Plants release oxygen during photosynthesis.

c. Fill in the blanks:

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1. Anaerobic respiration takes place in the absence of \_\_\_\_\_.
2. Food energy is measured in units' called \_\_\_\_\_.
3. The green pigment of the leaf is known as \_\_\_\_\_.
4. The \_\_\_\_\_ is a muscular sheet between the thoracic cavity and abdominal cavity.
5. The muscular organ present in the mouth is \_\_\_\_\_.

d. Complete the following:

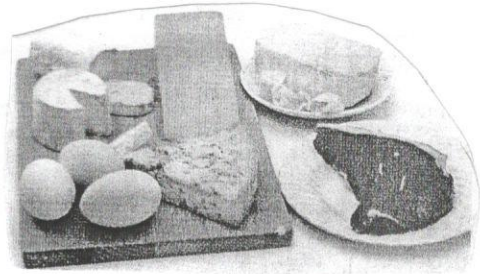
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Vitamins	Sources	Deficiency diseases
Vitamin---1-- -	-----2-----	Night blindness, dryness of the skin.
Vitamin B <sub>12</sub>	-----3-----	-----4-----
Vit---5---	Citrus fruits, tomatoes	-----6-----
-----7-----	----8-----	Rickets
Vitamin K	-----9-----	----10-----

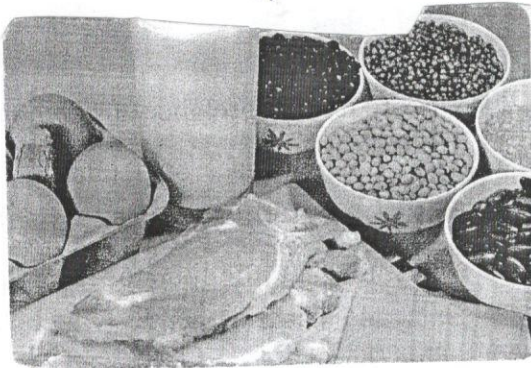
- e. Observe the following pictures, identify the nutrient which is rich in & write any one important of each. 10



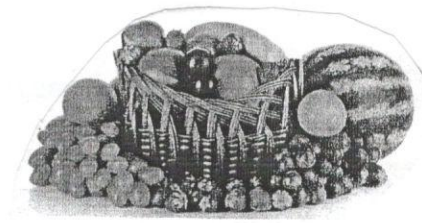
A



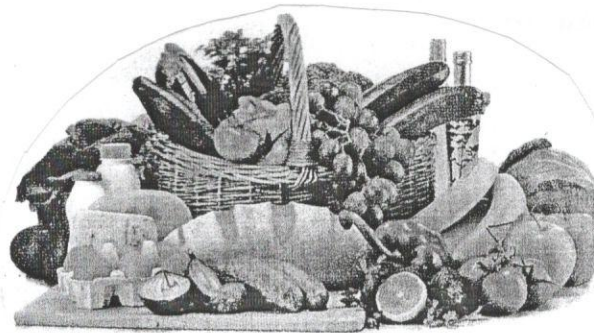
B



C



D



E

- f. Choose the correct answer from the given choice: 5

1. Casein and albumin are the kinds of [protein/vitamin]
2. The flap which guards the windpipe in human beings is [epiglottis/pleural membrane]
3. The gas evolved during photosynthesis is [ oxygen/carbon di oxide]
4. Nostrils open into ----- cavity [ nasal/buccal]
5. Which is called as trachea? [ windpipe/ food pipe]

**SECTION-II (40 marks)**

Attempt all question from this section

**Question-2**

- a. Draw the structure of a human tooth and label the following parts.  
Enamel, dentine, root, blood vessel and nerve

b. Write any one difference for the following:

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1. Ingestion and Egestion
2. Herbivores and carnivores [Type of teeth]
3. Phototropism and geotropism
4. Anaerobic and Aerobic respiration [end product formed]
5. Respiration and photosynthesis [ gas released]

**Question-3**

a. Define the following:

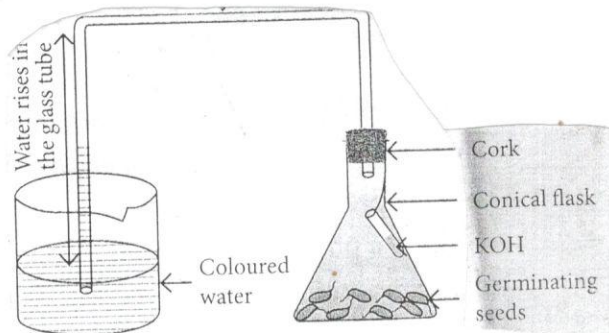
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1. Balanced diet
2. Pharynx
3. Enzymes
4. Calories
5. Food fad

**Question-4**

Observe the diagram and answer the following questions:

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- i. What is the purpose of this experiment?
- ii. Define the process.
- iii. Mention the raw materials required for this process.
- iv. Write chemical equation for the process mentioned by you.
- v. What is the importance of KOH in this experiment?

44

**Question-5**

**a. Name the enzymes numbered 1-5**

**5**

- i) Protein  $\xrightarrow{1}$  peptones
- ii) Fat  $\xrightarrow{2}$  fatty acid + glycerol
- iii) Starch  $\xrightarrow{3}$  maltose
- iv) Peptone/ peptide  $\xrightarrow{4}$  amino-acid
- v) Lactose  $\xrightarrow{5}$  glucose + Galactose

**b. Answer the following questions:**

**5**

- 1) What is the role of dil.HCL in digestion?
- 2) Name all the enzymes secreted by pancreas.
- 3) Mention the air sacs present in bronchioles.
- 4) One should not breathe through the mouth. Why?
- 5) Name the structures in small intestine which helps in absorption.