

# *City International School*

**First Summative Assessment 2015 - 2016**

**Date : 01/10/2015**

**Marks : 60**

**Std : VII**

**Subject : Biology (Paper III)**

**Time : 1hrs**

Answer to this paper must be written on the paper provided separately.

You will not be allowed to write during the first 15 minutes.

This time is to be spent in reading the question paper, the time given at the head of this paper is the time allowed for writing the answer.

Section A is compulsory. Attempt any three questions from section B.

The intended marks for questions or parts of questions are given in brackets ( )

## **SECTION – A [30 MARKS]**

**Attempt all questions from this section.**

### **Question 1**

- a. Fill in the blanks. (5)
- \_\_\_\_\_ is called the kitchen of a cell.
  - \_\_\_\_\_ is the lowest level of cellular organization.
  - Many bones of the skeleton act as \_\_\_\_\_.
  - \_\_\_\_\_ is blood like fluid lacking the red blood cells.
  - Egg white is rich in a protein called \_\_\_\_\_.
- b. State whether the following statements are True or False. (5)  
If False, correct the statement by changing the first or last word only.
- The jelly – like fluid inside the nucleus is called the nucleate.
  - An organ is made of different kinds of Tissues.
  - E.C.G. is used to examine the bones in our body, when we suffer from a fracture.
  - Nerve cells are found in the brain and the spinal cord.
  - Iodin is essential for forming haemoglobin.
- c. State the functions: (5)
- |                        |                       |               |
|------------------------|-----------------------|---------------|
| i. Chromosomes         | ii. Connective Tissue | iii. Proteins |
| iv. Respiratory System | v. Muscle cell        |               |
- d. Name the following. (5)
- Organelle that initiates cell division in an animal cell.
  - The organ system which helps in locomotion and movement.
  - A hard connective tissue.
  - Protective foods.
  - A simple permanent tissue composed of thick walled dead cells and is found in the hard parts of the plant body.

- e. Define. (5)
- i. Tissue                      ii. Joint                      iii. Microscopic organism
- iv. Blood                      v. Nutrients
- f. Given below are five sets with four terms each. In each set one term is off. (5)  
Choose the odd one out and name the category to which the others belong.

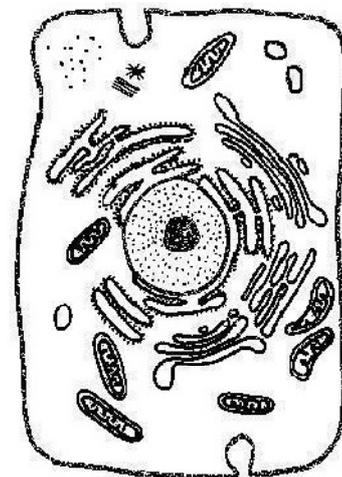
	Set	Odd	Category
<b>Eg.</b>	Potato, Bread, Butter, Rice	Butter	Carbohydrate
i.	Blood vessels, Lungs, Blood, Heart		
ii.	Cartilage, Bone, Blood		
iii.	Trachea, Nose, Lungs, Brain		
iv.	Carbohydrate, Fats, Vitamins		
v.	Stomach, Small intestine, Pancreas, Ureters		

**SECTION – B [30 MARKS]**  
**Attempt any three questions in this section.**

**Question 2**

- a. Given below is the diagram of the Animal cell. (5)

- i. Label parts 1 to 4
- ii. State the function of part 1
- iii. State one difference between Cell wall and Cell membrane
- iv. State the part that bears chromosomes.



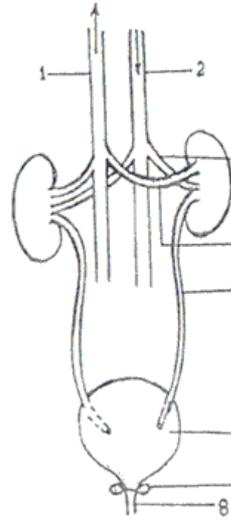
- b. Answer the following: (5)

- i. State the function of circulatory system.
- ii. State the difference between bones and cartilages.
- iii. Name the main organs of Respiratory system.
- iv. How many bones are there in human body.

### Question 3

a. Given below is the diagram of Excretory System. (5)

- i. Label parts 1 to 4
- ii. State the function of Excretory System.
- iii. Name two more organs other than kidney, which helps to remove unwanted waste.
- iv. Name the organ which stores urine.



b. Answer the following. (5)

- i. State the importance of roughage in our diet?
- ii. Name the 4 major components of food?
- iii. Why is water essential for our body?

### Question 4

a. Complete the following table. (5)

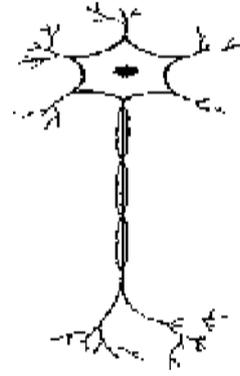
Sr. No.	Vitamin / Mineral	Function / Essential for	Deficiency disease
1.	Vitamin A	_____1_____	_____2_____
2.	Vitamin K	_____3_____	_____4_____
3.	Vitamin C	_____5_____	_____6_____
4.	Iodine	_____7_____	_____8_____
5.	Calcium	_____9_____	_____10_____

b. Differentiate between. (5)

- i. Endoplasmic reticulum and Ribosomes. (Functions)
- ii. Autotrophic and Heterotrophic Nutrition. (Mode of Nutretion)
- iii. Squamous Epithelium and Columnor Epithelium. (Based on the shape)
- iv. Meristematic Tissue and Permanent Tissue. (Based on cell division)
- v. Voluntary and Iovoluntary Muscles. (Define)

### Question 5

a. Given below is the diagram of Nerve Cell.



(5)

i. Label parts 1 to 6

ii. State two functions of Nervous Tissue.

b. Multiple choice questions select and rewrite the correct answer to the statement from the choice given below.

(5)

i. Which of the following is a Protective Tissue.

- |                      |                      |
|----------------------|----------------------|
| 1. Muscular Tissue   | 2. Connective Tissue |
| 3. epithelial Tissue | 4. Nervous Tissue    |

ii. Muscles found in heart are.

- |                       |                   |
|-----------------------|-------------------|
| 1. Voluntary muscles  | 2. Cardiac Muscle |
| 3. Involuntary Muscle | 4. All the above  |

iii. A thin walled living cells, stored food as in potato.

- |                 |                  |
|-----------------|------------------|
| 1. Parenchyma   | 2. Collenchymas  |
| 3. Sclerenchyma | 4. All the above |

iv. Two organ system in plants are

- |                      |                                 |
|----------------------|---------------------------------|
| 1. Roots and stem    | 2. Root system and Shoot system |
| 3. Stem and branches | 4. All the above                |

v. Cell was discovered by.

- |                 |                |
|-----------------|----------------|
| 1. Robert Brown | 2. C. Linnaeus |
| 3. Robert Hooke | 4. C. Darwin   |

vi. The blood cell which lacks Nucleus.

- |                     |                   |
|---------------------|-------------------|
| 1. White blood cell | 2. Red blood cell |
| 3. All the above    |                   |

vii. The total number of muscles in our body.

- |        |        |        |        |
|--------|--------|--------|--------|
| 1. 639 | 2. 636 | 3. 646 | 4. 630 |
|--------|--------|--------|--------|

viii. The Muscles which take part in breathing movement are.

- |                      |                    |
|----------------------|--------------------|
| 1. Involuntary       | 2. Cardiac muscles |
| 3. Voluntary muscles | 4. All the above   |

ix. Bones are hard due to

- |                        |                      |
|------------------------|----------------------|
| 1. Calcium carbonate   | 2. Calcium phosphate |
| 3. Calcium bicarbonate |                      |

x. Deficiency of Iodine leads to.

- |            |                |
|------------|----------------|
| 1. Anaemia | 2. Beri – Beri |
| 3. Scurvy  | 4. Goitre      |