

City International School

ANNUAL EXAMINATION 2015 - 2016

Date : 10/03/2016

Std : VIII

Subject : Biology (Paper 3)

Marks : 80

Time : 2 hrs

Answers 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 answers.

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

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

SECTION A [40 MARKS]

Attempt all questions from this section.

Question 1

- a. Name the following: (5)
- Harmones secreting cells in the pancreas.
 - The period between 10-19 years of age in an individual's life.
 - The Chamber between Cornea and Lens.
 - The agent which Cause Cancer.
 - A neurotransmitter.
- b. Define: (5)
- | | | |
|------------------|-------------------|---------------------|
| i. Fertilization | ii. Reflex action | iii. Tropic Hormone |
| iv. Disease | v. Health | |
- c. State the Functions: (5)
- | | | |
|--------------------|---------------------|--------------|
| i. Eustachian tube | ii. Glucagon | iii. Retinol |
| iv. Choroid | v. Neurotransmitter | |
- d. Fill in the blanks: (5)
- The nervous system is made up of special cells called _____
 - Kwashiorkor is cause due to the deficiency of _____
 - One end of the semi-circular canal widened to form a membranous cavity called _____
 - The hormone producing glands are called _____
 - The disease causing germs are called _____
- e. State whether the following statements are true or false. If false, rewrite the correct statement by changing the first or last word only. (5)
- The path which is travelled by an impulse in reflex action is reflex path.
 - Sensory neuron for pressure and pain are found in the epidermis layer of the skin.
 - Cochlea helps in smelling.
 - Metabolic disease is caused due to the malfunctioning of various body organs.
 - Cretinism causes sluggishness of metabolism with swelling on the face and hand.

- f. Given below is the set with four term in which one term is odd and cannot be grouped in the same category to which the other three belong . Identify the odd one in the set and name the category to which the remaining three belongs . (5)

Example : Urethra , uterus , urinary bladder , ureter

Odd one: Uterus

Category : Parts of the urinary system

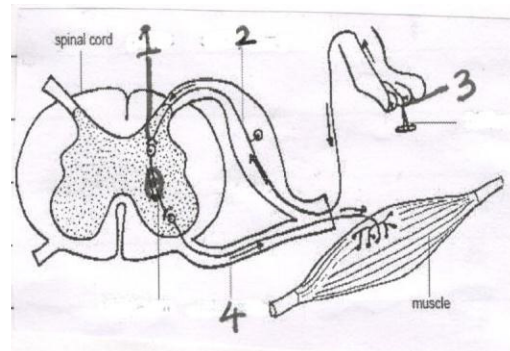
- i. Hammer, Anvil, Stirrup, Pinna
 - ii. Eye, Skin, Tongue, Brain
 - iii. Cold, Mumps, Influenza, Malaria
 - iv. Beri-beri, Pellagra, Haemophilia, Rickets
 - v. Salivary gland, Thyroid, Adrenal, Pituitary
- g. Give the technical term(s) for (5)
- i. A bundle of axons
 - ii. Emergency hormone to face the danger or to fight.
 - iii. Nerve that brings orders from the brain or spinal cord to effector organs such as glands and Muscles.
 - iv. Eye lens turns opaque causing blindness.
 - v. Hardening of arterial walls which reduce the blood flow.
- h. Write one word in the space provided to complete the second pair of the related words: (5)
- i. Memory: cerebrum :: breathing _____
 - ii. Sweat : sweat gland :: sebaceous gland : _____
 - iii. First pair of cranial nerve : olfactory to the nose :: seventh pairs of cranial nerve: _____
 - iv. Epidermis : epithelial cell :: dermis : _____
 - v. Haemophilia : blood clotting takes place slowly :: Thalassemia : _____

SECTION II (40 MARKS)

Attempt any four questions from this section.

Question 2

- a. The diagram given alongside is the reflex arc. look at the diagram and answer the questions. (5)
- i. Label the parts 1 - 4.
 - ii. State the functions of the parts 2 and 4.
 - iii. Define Stimulus
 - iv. Differentiate between the cerebrum and spinal Cord based on the arrangement of neuron.

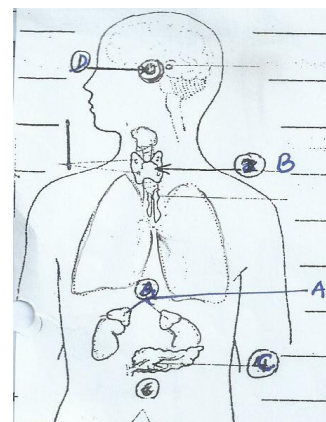


- b. Explain the following terms: (5)
- Binocular Vision
 - Vaccination
 - Immunization
 - Hormone
 - Fever

Question 3

- a. Given below is an outline of the human body showing the important glands: (5)

- Name the glands marked A to D.
- Name the hormone secreted by B.
Give one important function of this hormone.
- Expand ADH.
- Name the deficiency caused due to hypo secretion of ADH.

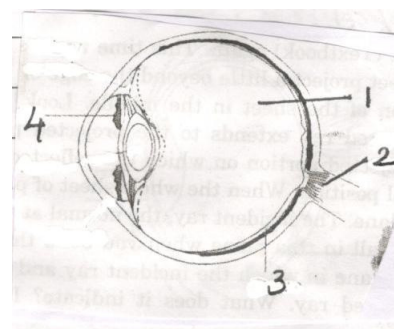


- b. Answer the following questions: (5)
- Name the two types of coordination taking place in our body?
 - Explain budding in hydra?
 - 'Adolescence is a crucial stage'. Explain?
 - Differentiate between Receptor and Effector.
 - Expand AIDS

Question 4

- a. Given alongside is the diagram of a human Eye, Study the same and then answer the question that follow: (5)

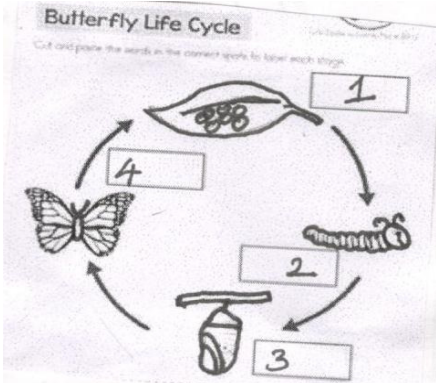
- Label parts 1-4
- State the function of 2 and 4
- Name the chamber present between Lens and Cornea
- Name the area of best vision.



- b. Complete the following tabel: (5)

Sr. No.	Vitamin/ mineral/Glands	Deficiency Diseases	Function
1.	1	Beri - beri	2
2.	Ascorbic acid	3	4
3.	Pancreas	5	6
4.	7	Anaemia	8
5.	Adrenal	9	10

Question 5

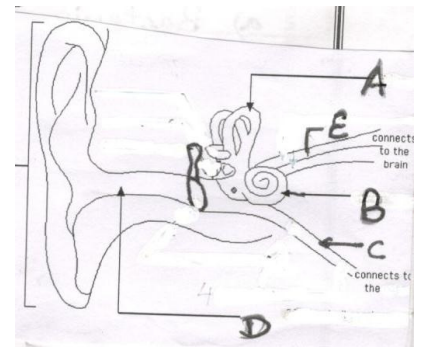
- a. The diagram Shown is the Life-cycle of Butterfly. Look at the diagram and answer the questions that follow : (5)
- i. Label the part 1 - 4.
- ii. Define Metamorphosis.
- iii. State the function of part labelled 3.
- iv. The larva of butterfly is called as _____
- 
- b. Choose the correct answer from the four options in the given statement. (5)
- i. Retina is made up of _____
- | | |
|----------------|---------------------|
| 1. Muscles | 2. Blood vessels |
| 3. Sense Cells | 4. Coloured pigment |
- ii. The mineral that helps in Muscle Contraction and nerve cell activity.
- | | |
|------------|--------------------------|
| 1. Iron | 2. Sodium and phosphorus |
| 3. Calcium | 4. Sodium and potassium |
- iii. Elephantiasis is caused by
- | | |
|------------------------------|--------------------------|
| 1. Female Anopheles Mosquito | 2. Female culex Mosquito |
| 3. Male Anopheles Mosquito | 4. Male culex Mosquito |
- iv. Cataract is a disease of
- | | |
|---------|-----------|
| 1. Ear | 2. Nose |
| 3. Eyes | 4. Throat |
- v. Pellagra is one disease Caused by the deficiency of:
- | | |
|-----------------------|-----------------------|
| 1. vit B ₃ | 2. Vit B ₁ |
| 3. Vit C | 4. Vit D |
- vi. Ring worm is caused by
- | | |
|-------------|--------------|
| 1. Bacteria | 2. Protozoan |
| 3. Fungi | 4. Virus |
- vii. The olfactory nerve is responsible for the sense of.
- | | |
|----------|----------|
| 1. Taste | 2. Smell |
| 3. touch | 4. Feel |
- viii. Which one of the following is a degenerative disease?
- | | |
|----------------|--------------|
| 1. Thalassemia | 2. Beri-beri |
| 3. Cataract | 4. Diabetes |

- ix. Infectious diseases can be prevented by
 - 1. Medicines
 - 2. Proper food
 - 3. Immunisation
 - 4. Exercise
- x. Medulla Controls
 - 1. Smelling
 - 2. Beating of heart and respiratory movement
 - 3. Intelligence and will power
 - 4. Balancing the body

Question 6

- a. Given alongside is the diagram of a part of the human ear, study the same and then (5) answer the questions that follow:

- i. Name the parts labelled A,B,C and D.
- ii. State the functions of the parts labelled 'C' and 'E'
- iii. Fill in the blanks:
 - 1. The Sensory Cells in the Semi-Circular Canals are concerned with _____.
 - 2. _____ is Spiral shaped and looks like snail shell.

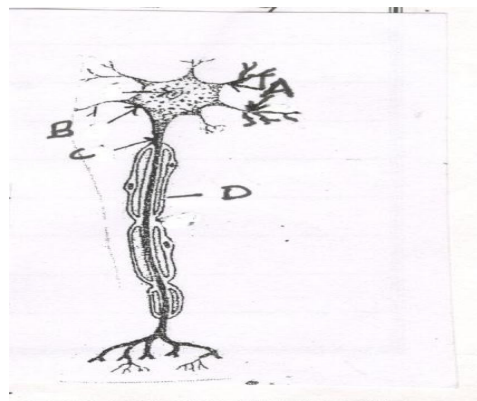


- b. Differentiate between the following: (5)
- i. Rods and Cones (pigment)
 - ii. Sympathetic and parasympathetic (in their action)
 - iii. Budding and Regeneration (Define)
 - iv. Sensory nerve and Motor nerve (functions)
 - v. Communicable and Non-Communicable (Define)

Question 7

- a. The diagram given alongside is the external view of the nerve cell. Study the same (5) and answer the questions that follow.

- i. Label the parts A,B,C and D
- ii. State the function of A and D
- iii. Define Synapse



- b. Give reason for the following:
- i. Injury to medulla oblongata leads to death.
 - ii. Endocrine glands is known as ductless gland.
 - iii. Alcoholic person is unable to coordinate his muscular movements properly.
 - iv. Pituitary gland is called as 'Master gland'.
 - v. Pancreas also called an Exocrine and an Endocrine glands.