

GREENLAWNS SCHOOL, WORLI
TERMINAL EXAMINATION: 2017-18
BIOLOGY

Std: IX

Marks: 80

Date: / /2017

Time: 2 hrs

Answer to this paper must be written on the answer booklet provided to you.

The first 10 minutes are 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. All questions are compulsory. Do not waste paper. Leave only one line after each answer.

I A) Name the following: [5]

- i. Blood plasma from which fibrinogen has been removed.
- ii. Mode of locomotion in bacteria.
- iii. A fish that can devour mosquito larvae.
- iv. An egg laying mammal.
- v. Body ailment in alcoholics.

B) Fill in the blanks by using suitable words: [5]

- i. Hydra moves by looping or by a kind of _____
- ii. The tidal air contained in air sacs is called _____
- iii. _____ is a parasite which lives on rat's skin.
- iv. From the end of caecum projects a narrow worm-shaped tube called _____
- v. _____ is a very serious food poisoning due to bacterium found in tinned and sealed foods.

C) Differentiate between the following pairs on the basis of what is given in brackets: [5]

- i. Dorsal and ventral (body direction)
- ii. Voluntary and involuntary muscles (location)
- iii. Mosquito and housefly (shape of wings)
- iv. Lipase and lactase (action on food)
- v. Plant and animal (bacterial disease)

D) Explain the following terms: [5]

- | | |
|---------------|--------------------------|
| i. Hygiene | iv. Antagonistic muscles |
| ii. Antitoxin | v. Fermentation |
| iii. Villi | |

E) Give scientific reasons for the following: [10]

- i. Housefly is often designated as Public Enemy No. 1
- ii. Earthworm is highly used in agriculture.

- iii. Fungi have a very extensive use in industry.
- iv. Stomach is provided with a ring of muscles.
- v. The inner lining of the respiratory passage is formed of cilia while the lungs are covered with pleural membranes.

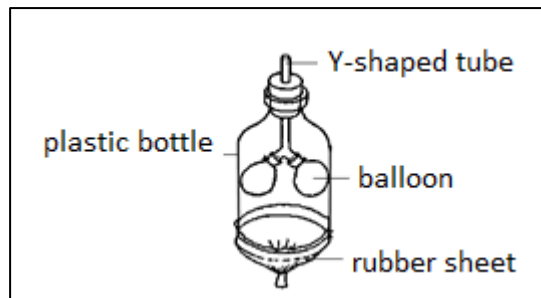
F) Write the function of the following: [5]

- i. Bile
- ii. Gills
- iii. Spore in bacterium
- iv. Foramen magnum
- v. Pepsin

G) The figure below represents five successive stages of sexual reproduction in Rhizopus. Observe and describe the changes in each stage: [5]



II A) The figure given below represents an apparatus which is used to demonstrate the process of breathing:



- i. What is the aim of this experiment? [1]
- ii. What do the balloons, plastic bottle, Y-shaped tube and rubber sheet present? [2]
- iii. Which breathing movement is indicated in this figure? [1]
- iv. What will happen when the rubber sheet is pushed upwards? [1]
- v. Give two points of difference between respiration and breathing. [2]
- vi. Give a balanced equation to represent respiration. [1]

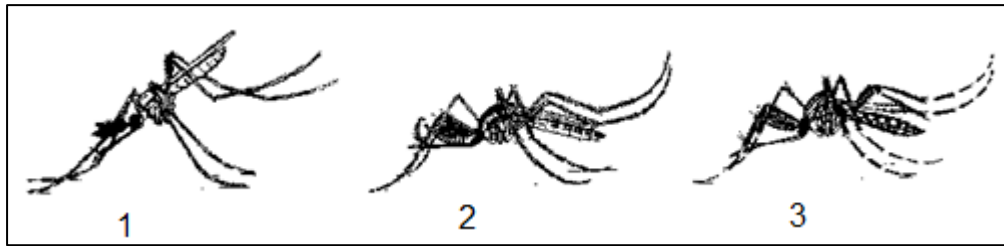
B) Write two main characteristics of Phylum Echinodermata. [2]

III A) How is voice different from speech? [2]

B) Give two similarities between plant and animal respiration. [2]

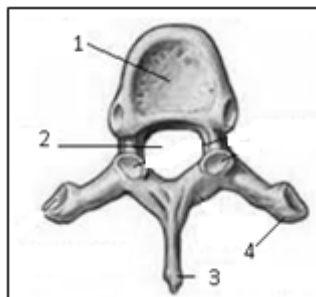
C) Mention two reasons to prove that fungi are not plants. [1]

D) The picture below shows three types of mosquitoes:



- i. Identify the three mosquitoes from their sitting postures. [1½]
- ii. Name the disease spread by each of the above mosquitoes. [1½]
- iii. Suggest two methods to destroy mosquitoes in different stages. [2]

IV A) The figure given below represents a bone of our body. Observe the figure and answer the following questions: [5]



- i. Name the bone.
- ii. Label parts 1 to 4.
- iii. Explain its structure.

B) Name the phylum of each of the following invertebrates: [2]

- i. Scorpion
- ii. Sea cucumber
- iii. Ascaris
- iv. Turtle

C) 'Movements of different parts of the body are usually made easier due to lever actions in the skeleton.' Based on this statement give examples of the first and third order levers in our body. [2]

D) How are alveoli adapted for gaseous diffusion? [1]

V A) Name and state the causative agent and symptom of Cholera. [2]

B) Name the first and the second type of teeth and the function they perform. [2]

C) Draw neat and labelled diagrams of the following: [6]

- i. Nitrogen cycle
- ii. Rhizopus growing on bread
