GREENLAWNS SCHOOL, WORLI TERMINAL EXAMINATION: 2016-17 BIOLOGY

Std: IX Date: 3 / 16/2016

Marks: 80 Time: 2 hrs

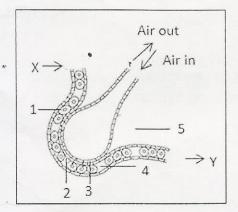
Answer to this paper must be written on the paper provided separately. You will **not** be allowed to write during the first **10** minutes. This time is to be spent in reading the Question paper. **Section I** is compulsory. Attempt **any four** questions from **Section II**.

SECTION I (40 Marks)		
Attempt all questions from this Section		
Question 1		
(a) Name the following:		[5]
 Another name for extent 	ernal respiration.	
ii. Animals with a two-lay	vered body wall and a mouth surrounded by tentacles.	
iii. The lateral outgrowths	given out by each conjugating hypha of <i>Rhizopus</i> .	
iv. A nitrifying bacteria.		
v. The cavity in the body	in which the human lungs are located.	
(b) Explain the following term	ne.	[5]
i. Food chain	iv. Toxins	[5]
ii. Binomial nomenclatur		
iii. Hypoxia	v. i cinicitation	
(c) Differentiate between the	following pairs on the basis of what is given in brackets	: [5]
i. Flora and fauna (mea		
ii. Tidal volume and resid		
	adiation (technique in food preservation)	
iv. Vibrio and bacilli (sha		
v. Inspired air and expire	ed air (percentage of carbon dioxide)	
(d) Give scientific reasons fo	r the following:	[5]
	ed with blood capillaries.	[0]
ii. Bat can fly yet it is not		
iii. Fishes are said to be		
iv. Serums are used as a	preventive measure against bacterial invasion.	
v. The earthworm is high		
(a) Fill in the blanks by using		
(e) Fill in the blanks by using		[5]
i. The term ecosystem is ii. The inner lining of trace	s derived from the Greek word	
	n certain common characteristics form a	
m. A group of genera with	T CETTAIN COMMITTON CHARACTERISTICS TOTAL A	

- iv. _____ bacteria may take epidemic shape and cause widespread death generation after generation.
- v. Yeast reproduces asexually by
- (f) Classify the following organisms:

[4]

- i. Tiger
- ii. Man
- (g) Draw a neat diagram of a bacterial cell and label flagellum, capsule, cell wall, cell membrane and bacterial chromosome.
- (h) The figure below represents gas exchange in an alveolus. Observe and answer:



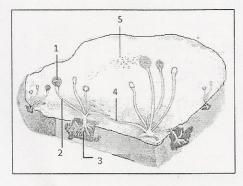
- i. Label parts 1 to 5. [2½]
- ii. X and Y represent blood capillary. Where [2] are X and Y coming and going to?
- iii. What is the difference between the blood [2] flowing from X and Y?
- iv. What is the importance of part 3 in the figure? [1/2]

SECTION II (40 Marks)

Answer any four questions from this Section

Question 2

(a) The figure below represents a part of a fungus growing on a piece of stale [5] bread.

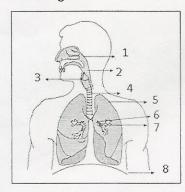


- i. Name the fungus.
- ii. Name the parts 1 to 5.
- iii. Name the kingdom to which the above organism belongs.
- iv. Why is it not possible for the fungus to prepare its own food?
- (b) Give one main similarity and difference between each of the following pairs: [4]
 - i. Snake and lizard
 - ii. Whale and shark
- (c) Define genus.

[1]

Question 3

The figure below represents the respiratory system of man showing the right and the left lungs:



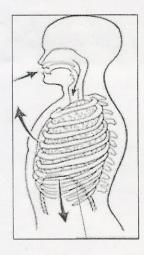
i.	Label the parts to which the guidelines point.	[4]
ii.	What role do the following play in breathing –	
	nasal hairs, larynx, diaphragm.	[3]
iii	Cellular respiration occurs in two main phases	[3]

iii. Cellular respiration occurs in two main phases at two different places inside the cell. Explain these two phases.

Question 4

Quochon .	
(a) Draw a neat and labelled diagram to show binary fission in bacteria.	[2]
(b) Give two examples of each:	[2]

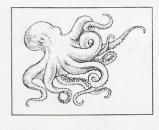
- i. Antibiotics
- ii. Vaccine
- (c) Observe the diagram given below and answer the questions that follow:



	1.1 1.5 1		[4]
1.	Identify this breathing movement.	1.2	
ii.	Give any 3 reasons for your above answer.		[3]
iii.	How are breathing movements largely controlled?		[1]
iv.	What is vital capacity?		[1]

Question 5

(a) Study the figures and identify the animals given below. Mention the phylum or class they belong to. Write two features of each phylum or class.



(ii)

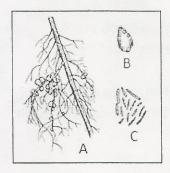
(i)(b) Explain the role of bacteria and fungi in industry.



[4]

Question 6

(a) Given below is a diagram of the roots (A) of certain plants. (B) and (C) are related to (A) showing enlarged views.



Geep

i.

i.	Name any one plant whose roots will show as in A.	[1]
ii.	What is B?	[1]
iii.	What is C?	[1]
iv.	Describe the process of nitrification.	[3]

(b) Write two characteristic features of the following phyla:

Mollusca
Annelida

(c) Given below are two examples of hybrids produced by man. Name two closely related animals by interbreeding between which these hybrids have been produced.

ii. Mule