GREENLAWNS SCHOOL, WORLI

FINAL EXAMINATION: 2016-17

BIOLOGY

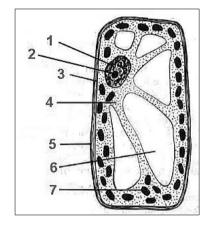
Std: IX Marks: 80 Date: / /2017 Time: 2 hrs

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.

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Question	
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		ON I (40 Marks)	
	Attempt <b>all</b> que	estions from this Section	
Ques	tion 1		
(a) Na	ame the following:		[5]
i.	The suicide bag of the cell.		
ii.	Outer region of dermis raised in	nto numerous small processes.	
iii.	The protective covering of brain	٦.	
iv.	Bone-like structure covering an	d fixing the root in position.	
٧.	The first produced antibiotic.		
(b) Di	fferentiate on the basis of what is	s indicated in brackets:	[5]
i.	Prokaryotic and eukaryotic cell	(meaning)	
ii.	Sweat and sebum (function)		
iii.	Pivot joint and hinge joint (exar	nple)	
iv.	Submandibular and sublingual	gland (location)	
٧.	Serum and vaccine (definition)		
(c) Fil	l in the blanks by using suitable	words:	[5]
i.	The hormone was th	ne first substance produced by E.coli bacte	eria.
ii.	is the conversion of	the absorbed digested food into body mat	erial.
iii.	bind the bones toget	ther.	
iv.	Primarily the skin is an almost	barrier.	
٧.	Some colouring pigments which	h remain dissolved in the cell sap are calle	∍d
<u>-</u>			
	cplain the following terms:		[5]
	Chromoplasts	iv. Girdles	
	Vasoconstriction	v. Peristalsis	
iii.	Botulism		
(e) St	ate the role of the following:		[5]
i.	Golgi body	iv. Ptyalin	
ii.	Synovial fluid	v. Subcutaneous fat layer	
iii.	Rhizobium bacteria		

- (f) Give scientific reasons for the following:
  - i. In the female the pelvis is wider and trough shaped.
  - ii. The liver is an important organ in post-mortem examination.
  - iii. Sweat pores are more numerous on the palms.
  - iv. Some bacteria possess one or more whip-like flagella.
  - v. Size and shape of the cell depends upon its function.
- (g) The figure below shows a cell. Observe and answer the questions:



- i. Label the parts 2, 4 and 6.  $[1\frac{1}{2}]$
- ii. What is the function of parts 2 and 6.[2]
- iii. Why is part 1 the most important part of the [1] cell?

[5]

- iv. Give one difference between parts 3 and 5.[1]
- v. Name the plastid 7 and the pigment present [1]

 $[\frac{1}{2}]$ 

in it.

- vi. Name a structure absent in this cell but present in another kind of cell.
- (h) Draw the following shapes of bacteria streptococcus, vibrio and bacillus. [3]

#### **SECTION II (40 Marks)**

Attempt any four questions from this section

#### **Question 2**

(a) The figure here represents the forearm of man. Answer these questions:

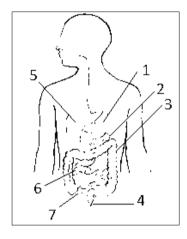


- i. Label the parts 1 to 6. [3]
- ii. What are the muscles 5 and 6 called? [1]
- iii. What is the function of part 3? [1]
- (b) The liver is the largest gland of the body weighing about 1500 g on an average.
  - i. Where the liver is exactly located? [1]
  - ii. Name the yellowish green watery fluid produced in liver. [½]
  - iii. Where is the above liquid temporarily stored? [½]

i۷.	What gives the fluid its colour?	[1]
٧.	Give the overall action of bile on food.	[1]
vi.	Give any one function of liver other than production of fluid.	[1]

#### Question 3

Observe the alimentary canal given below and answer the questions that follow:



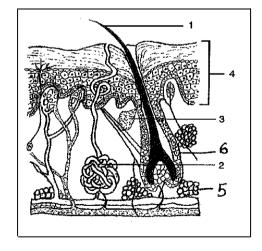
- i. Label parts 1 to 7. [3½]
- ii. List the three enzymatic action of the juice [3]

given out by 2.

- iii. Name the sub-regions of part 6.  $[1\frac{1}{2}]$
- iv. State two functions of the acid secreted by[2]part 2.

#### **Question 4**

Given below is a diagram of section of human skin. Observe and answer the questions that follow:



i.	Label the parts 1, 2, 3, 5 and 6.	$[2\frac{1}{2}]$
ii.	Name the three regions of part 4.	[1½]
iii.	State the functions of these regions.	[3]
iv.	What is goose flesh?	[1]
٧.	What is the cause for pimples?	[1]
۷İ.	What causes graying of hair?	[1]

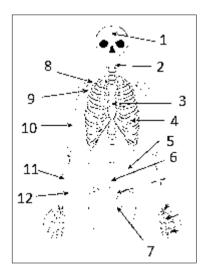
### **Question 5**

(a) According to an estimate, there are more bacteria normally living on our skin than the total number of humans living on Earth.

İ.	What is the average size of bacteria?	[1]
ii.	How do bacteria obtain its nutrition?	[2]
iii.	What type of reproduction is seen in bacteria?	[1/2]
İ۷.	Draw a neat diagram to show reproduction in bacteria.	[1]
٧.	How fast do bacteria reproduce?	[1/2]
۷İ.	Explain the advantage of spore formation in bacteria.	[2]
vii.	Draw a neat diagram of a bacterial cell labelling any four parts.	[3]

## **Question 6**

Given below is a figure of human skeleton. Observe and answer the questions that follow:



i.	Label the parts 1 to 12 using scentific terms.	[6]
ii.	Identify the joint present at 8.	[1]
iii.	Name the parts in the hind limbs that correspond to parts 10, 11 and 12.	[1½]
iv.	What are the finger bones called?	[½]
٧.	Why are floating ribs so called?	[1]

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