

Roll Number		
-------------	--	--

Code Number 44/1/1



INDIAN SCHOOL MUSCAT FIRST ASSESSMENT

BIOLOGY

CLASS: XI

Sub.Code: 044

Time Allotted: 3 Hrs.

18.09.2017

Max .Marks: 70

General Instructions :

- (i) There are a total of 26 questions and five sections in the question paper. All questions are compulsory.
- (ii) Section A contains questions number 1 to 5, Very Short Answer type questions of one mark each.
- (iii) Section B contains questions number 6 to 10, Short Answer type-I questions of two marks each.
- (iv) Section C contains questions number 11 to 22, Short Answer type-II questions of three marks each.
- (v) Section D contains question number 23, Value Based Question of four marks.
- (vi) Section E contains questions number 24 to 26, Long Answer type questions of five marks each.
- (vii) There is no overall choice in the question paper, however, an internal choice is provided in one question of two marks, one question of three marks and all three questions of five marks. An examinee is to attempt any one of the questions out of the two given in the question paper with the same question number.

Section A

1. Name the vestigial organ found in human alimentary canal. 1
2. How many bones are present in forelimb of human? 1
3. Write one point of difference between fibrous root system and adventitious root system? 1
4. What is a 'thorn' in plants? 1
5. Mention the type of phyllotaxy seen in mustard plant. 1

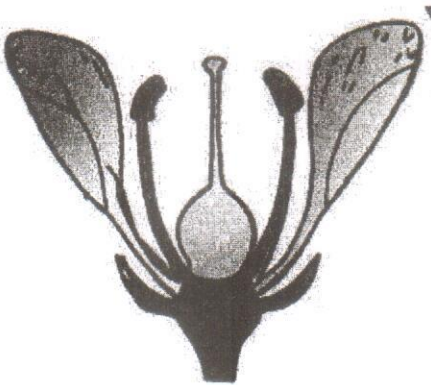
Section B

6. Through which organ and by what process the earthworms obtain oxygen? 2
7. Write the difference between Actin filament and Myosin filament. 2
8. State a reason for Osteoporosis to occur in elderly people. How it is characterized? 2

OR

What are known as Vertebrochondral ribs? Why are they called so?

9. Observe the picture and define what type of flower it is? Give one example. 2



10. How does mesocarp differ in mango and coconut? 2

Section C

11. How would it affect the digestion of food if there is blockade in the Pancreatic duct? 3
12. What is oxygen dissociation curve? What are the factors affecting binding of 3

oxygen to the haemoglobin?

13. How is respiration regulated in human being? 3
14. Draw different types of white blood cells. 3
15. What are Ammonotelic, ureotelic and Uricotelic animals.? Give on example of each type of these 3
16. What makes the synovial joints freely movable? List any four types of synovial joint. 3

OR

Name and state the theory that explains the mechanism of muscle action. What is a motor unit?

17. How do you perceive the colour of an object? 3
18. What is meant by reflex action ? Name the components of a reflex arc in correct sequence from receptor up to effector. 3
19. List the hormone(s) secreted by the following (one each) 3
(a) Anterior Pituitary (b) Parathyroid (c) Thyroid (d) Adrenal (e) Testis (f) Atrium
20. Which is known as hyperglycemic hormone? How do they act in our body? 3
21. Depict Double circulation in flow chart. 3
22. Define the following terms: 3

(a) aestivation (b) placentation (c) epipetalous stamen

Section D

23. Babu and Gopal went to a party. In the party Gopal ate a lot of spicy food. Seeing this Babu advised Gopal not to take spicy food too much in the late evening that would affect his health. 4

- a) What is Gopal likely to suffer from? How is it characterized?
- b) What values does Babu show?

Section E

24. a) Name three kinds of cells in gastric glands with their sections. 5

b) How is trypsinogen activated into trypsin?

c) Give one example of disaccharidases.

OR

List out the various steps of respiration.

25. Describe how cardiac activity is regulated. 5

OR

Explain the structure of a nephron.

26. a) Briefly explain the mechanism of action of a peptide hormone with example. 5

b) What are growth factors?

OR

- i) How the pre-synaptic neuron transmits an impulse (action potential) across the synaptic cleft to the post-synaptic neuron in chemical synapse?
- ii) What is limbic system? Mention its function.