

Ms. Sajini
XI-A, XI-A & T
SET - A

INTERNATIONAL INDIAN SCHOOL, RIYADH

Post Box No.89788, Riyadh-11692 (K.S.A.)



FIRST TERM EXAMINATION, JUNE 2011

Class: XI

Subject: BIOLOGY

Maximum Marks: 70

Time: 3 Hours

GENERAL INSTRUCTIONS:

1. This question paper consists of four sections A, B, C and D.
2. All questions are compulsory.
3. There is no over all choice. However, an internal choice has been provided in one question of 2 marks, one question of 3 marks and each question of 5 marks weightage. Attempt only one of the choices in such questions.
4. Section A contains 8 questions of one mark each and to be answered in one word or one sentence.
5. Section B contains 10 questions of 2 marks each and to be answered in approximately 20 – 30 words.
6. Section C contains 9 questions of 3 marks each and to be answered in approximately 30 – 50 words.
7. Section D Contains 3 questions of 5 marks each and to be answered in approximately 80 – 120 words.

SECTION – A

[1 x 8 = 8]

1. How does bile reach the gall bladder?
2. What is residual volume? How much is it in a normal human adult?
3. Why does lymph contain much less proteins than the blood plasma?
4. Select out the uricotellic from the following animals:
(Aquatic insects, birds, mammals, marine fishes, reptiles)
5. Osteoporosis is an age-related disorder and characterized by decreased bone mass. What is the common cause of this disorder?
6. Why is blind spot devoid of the ability for vision?
7. If a freshly plasmolysed cell has to revert to its normal state. What should be the nature (tonicity) of the medium, in which it will be placed? *hypotonic*
8. How is tongue attached to the floor of the buccal cavity?

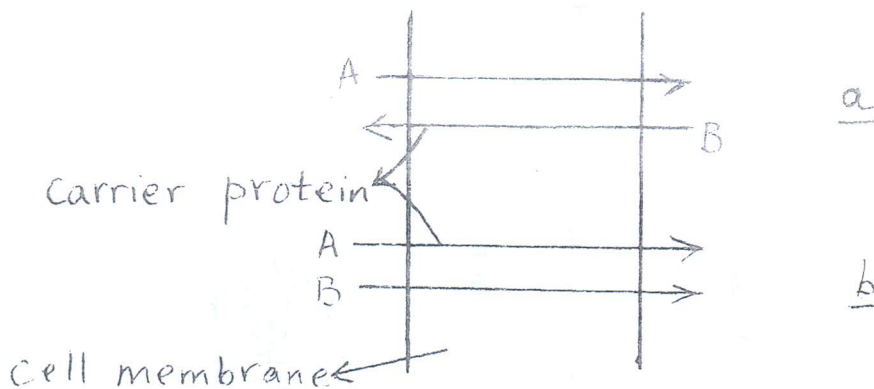
Bio - 11 - 1

SECTION - B
[2 x 10 = 20]

- 9. What would happen if HCl were not secreted in the stomach?
- 10. With reference to partial pressure of gases, explain how oxygen and carbondioxide are exchanged between alveoli and blood during respiration?
- 11. Give the full form of ECG. Show the diagrammatic presentation of standard ECG. What does QRS complex represent?
- 12. What is myasthenia gravis? Write two symptoms.
- 13. Fill in the blanks at (A), (B), (C) and (D).

Action potential reaches at axon terminal
↓
vesicles release - (A) — filled in vesicles
↓
Chemicals present in synoptic cleft bind to — (B) —
↓
Binding opens the — (C) —
↓
New potential generated in — (D) —

- 14. The immune responses of old persons become weak. Which endocrine gland is responsible for this? Name the hormone secreted by this gland and state the role of hormone in maintaining the Immune system.
- 15. Name the type of facilitated diffusion indicated as a and b in the following.



- 16. The marriage between Rh - ve woman and Rh + ve man results in Rh + ve foetus. What type of incompatibility will you observe between the Rh - ve blood of pregnant mother with Rh + ve blood of the foetus?

-OR-

- How are heart sounds produced during cardiac cycle?
- 17. Bring out the differences between red muscle fibres and white muscle fibres.
- 18. Enlist any four effects produced by estrogen.

