INTERNATIONAL INDIAN SCHOOL - DAMMAM

FIRST TERM EXAMINATION 2013

Subject - Biology

Class - XI

SET-B

Max Marks: 70

General Instructions:

Time: 3 hours

- 1. All questions are compulsory.
- This question paper consists of four sections A, B, C and D. Section A contains 8 questions of 1 mark each, Section –B is of 10 questions of 2 marks each. Section C has 9 questions of 3 marks each and Section D is of 3 questions of 5 marks each.
- 3. There is no overall choice. However, an internal choice has been provided in one question of 2 marks, one question of 3 marks and all the three questions of 5 marks weightage. Attempt only one of the choices in such questions.
- 4. Whereever necessary, the diagrams drawn should be neat and properly labelled.

What does the half-leaf experiment on photosynthesis prove.

Section A

How does a manual serve as a taxonomic aid?	[1]
Name the membraneous extensions into the cytoplasm that contain pigments in prokaryotes.	[1]
What do you mean by the term crossing over.	[1]
Name the family that comprises Tiger, Leopard and Cats.	[1]
There is a clear division of labour within the chloroplast. Justify	[1]
Define vital capacity with respect to breathing.	[1]

Section B

A chronic disorder in which alveolar walls are damaged due to cigarette smoking.

Fill in the blanks: a to d in the different columns of the table given below.

[2]

[1]

[1]

Enzyme	Substrate	Product of action
(a)	Starch	(b)
Pepsin	(c)	(d)

14. Explain how transport of oxygen takes place in the human body.

Explain how transport of carbon dioxide takes place in the human body.

15. Mention the four factors needed for chemiosmosis to take place.

16. Why the reaction centers of photosystem are named as P700 and P680 respectively. [2]

17. What are nucleosides. Name the four of them which occur in DNA. [2]

18. What will be the aminoacid if the R-group is a methyl group and represent the structural formula of the aminoacid.

[2]

Section C

19. Name the organelle in animal cell that has its own genetic material. Explain with the help of labeled diagram.

[3]

2

20. How does the digested products of fat molecule get absorbed into the blood stream?

[3] [3]

21. Whay are membraneous organelles considered as an endomembrane system. Mention its components.

[3]

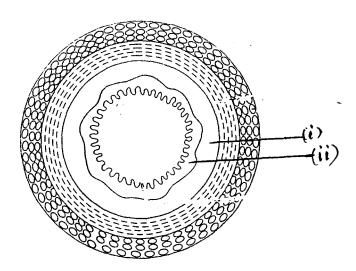
22. What are co-factors. Explain different kinds of co-factors and their functions with examples.

23. Enumerate the events that occur in anaphase of mitosis and draw a labeled diagram of the cell in this stage.

[3]

24.

[3]



- (a) What does the given picture depict.
- (b) Identify (i) and what is it formed of.
- (c) Identify (ii) and write its modification in stomach and small intestine.
- 25 Evaluin the machanism of breathing in humans

[2]