

National Education Society's High School
Bhandup (w) Mumbai – 400 078
IV Preliminary Exam

Std: X /Div:

Sub-Science & Technology

Marks:40

Roll No:

Part -B

Time:2HRS

Date: 21.02.2019

No of Pg- 04

QIA1) Fill in the blanks

(2)

_____ can be considered as the first example of wise man.

2) For information of plasma membrane, _____ molecules are necessary.

Write the functions of the following

(1)

3) Ovaries

Write whether the following statements are true or false giving suitable explanation for the same .

(2)

4) Paddy fields are frequently attacked by frogs.

5) Energy obtained from nuclear fission is ecofriendly.

B) Multiple choice questions

(5)

1) In this stage of mitosis, the daughter chromosomes appear like bunch of bananas.

a) Prophase b) Metaphase, c) Ana phase d) Telophase.

2) The process of union of male gamete with egg cell is called _____.

a) fertilization b) pollution c) double fertilization d) germination

3) Man is _____ animal.

a) herbivorous b) carnivorous c) autotrophic d) Omnivorous

4) Heart of cockroach has _____ compartments.

a) 2 b) 3 c) 4 d) 13

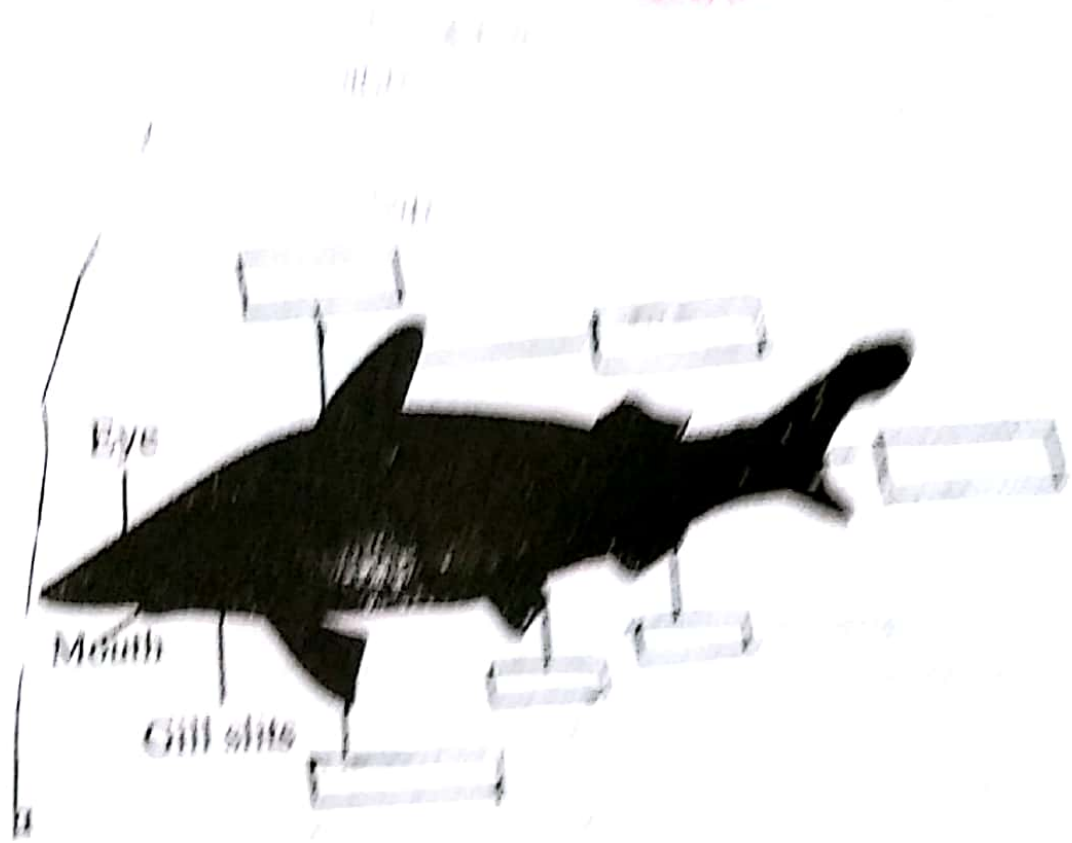
5) _____ is obtained by fermentation of apple juice.

a) Cedar b) wine c) Coffee d) Cocoa

Pg-1

ii Answer the following (Any Five)

- 1) Explain the adaptation in fish body which makes it naturally live in water as well as going in deep water
- 2) Draw and label the diagram of a fish



3) Reorganize the following food chain. Describe the ecosystem to which it belongs.

Grasshopper - Snake - Paddy field - Eagle - Frog

4) What is meant by green energy? Which energy resources are called green energy sources and why? Give examples.

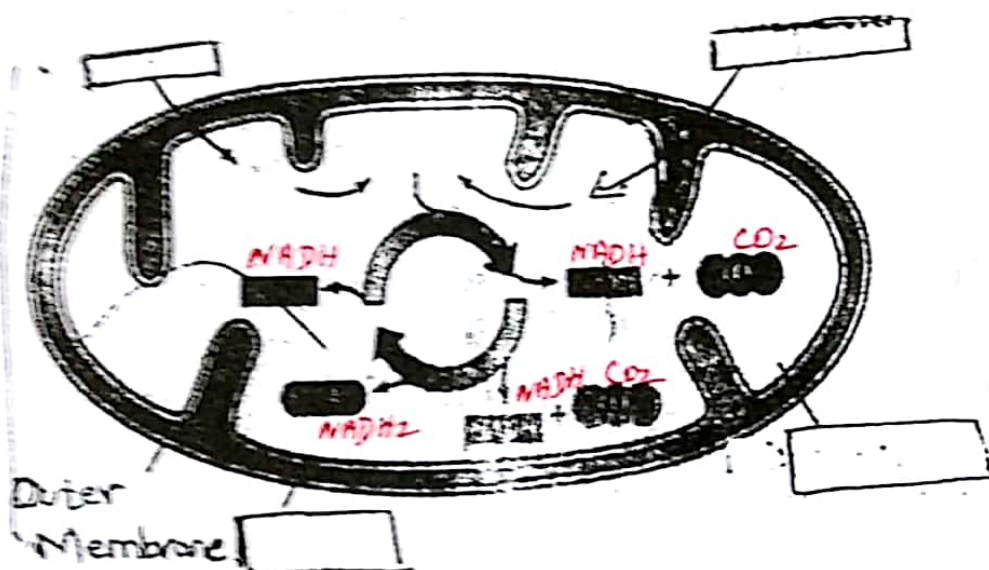
5) Microbial enzymes are used instead of Chemical catalysts in chemical industry - Give Scientific reasons.

- 6) Distinguish between organic manure and chemical fertilizers.
- 7) a) What is selficide?
 b) What is piracy? *piracy*

III Answer the following (Any 5)

(15)

- 1) Who proposed the model of protein synthesis? What was the effect of this research?
- 2) Draw and label the diagram and answer the following questions



- a) Which co-enzymes are shown in the diagram?
- b) Which chemical reaction takes place in the mitochondria?
- 3) Write short note on :-
 Budding in Hydra with diagram
- 4) Write the types and examples of Biodiversity.

Pg-3

5) What are the advantages of solar energy ?

6) How can the soil polluted by acid rain be made fertile again?

7) Write the information of any three genetically modified crops?

IV Answer any one of the following (5)

A) 1) Explain the characteristics of phylum platy-helminthes.

B) 2) Draw and label the diagram of liver fluke

2) Which different aspects of disaster management would you check for your school? Why?

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21/2/19