



SHAH CLASSES[®]

CULTIVATING SUCCESS SINCE 1998

Subject : Science - II

Marks : 40

Class : X

Prelim Question Paper - 1

Time : 2 Hr.

Q.1 : A) Multiple Choice Questions. 5

- Classification proposed by Aristotle is known as '.....'.
a) Kingdom Classification
b) General Classification
c) Synthetic method
d) Artificial method
- Alcoholic person lacks the thinking.
a) straight b) rational
c) universal d) spiritual
- Factor disturbing the mental health is/are
a) Mental Stress
b) Addiction
c) Excessive use of technology
d) All of the above
- Which plant is used as biofertilizer ?
a) Rhizobium b) Azotobacter
c) Nostoc d) Azolla
- _____ acid is used in the production of vitamins.
a) Citric b) Gluconic
c) Lactic d) Itaconic

B) Answer the following questions. 5

- Find co-related terms
Pedicel present : pedicellate flower : :
Pedicel absent :
- Find the odd one out.
Actin, Ossein, Myosin, Aldosterone

3. Match the pair.

Column "A"	Column "B"
i. Birds	a. Invertebrates
ii. Deep sea fishes	b. Aves
	c. Cro Magnon
	d. Pisces

- State true or false.
Cilia push the oocyte towards the uterus.
- Name the following.
Name any two conventional sources of energy.

Q.2 : A) Give scientific reason. (Any two) 4

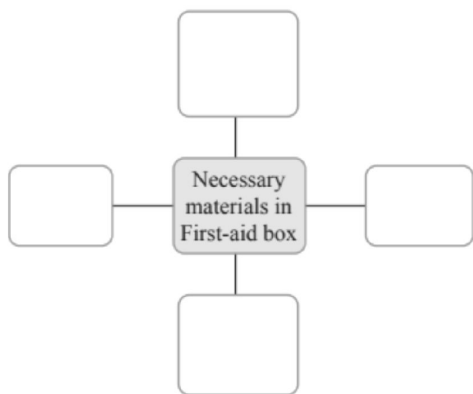
- Environmental pollution has become a cause for concern.
- It is difficult to clean a pond filled with algae like spirogyra and maintain it in the same state for a long time.
- Oral rehydration solution (salt-sugar-water) is given frequently to persons experiencing loose motions.

B) Answer the following questions.

(Any three)

6

- Write the objections raised against Darwin's theory of natural selection.
- Complete the following chart.



3. Distinguish between Butterfly [Animals in phylum Arthropoda-butterfly] and Bat [Class-Mammalia: Bat]
4. Write short notes Environmental conservation.
5. Give example of Fuels obtained from biomass.

Q.3 : Answer the following questions.

(Any five)

15

1. Complete the following table.

Endangered Heritage Places of the Country	Threatened/ endangered species of an animal	Reasons
Western ghat		
	Rhino	
	Tiger	

2. What is disaster ? Which are two main types of disasters ?
3. Select the appropriate options and rewrite the following paragraph.
(Proteins, testosterone, 9 Kcal, epithelial, phospholipids, lipids, growth hormone, progesterone, 4 Kcal, adipose connective)
Digestion of results in formation of fatty acids and glycerol. Different cells use fatty acid to produce various substance necessary to themselves. For e.g. the molecules called are required for production of plasma membrane. Fatty acids are required for production of hormones like , estrogen, , aldosterone, etc, and the covering around the axons of nerve cells.

We get of energy per gram fo lipids. Excess lipids are stored in tissue in the body.

4. Observe the picture and answer the following questions.



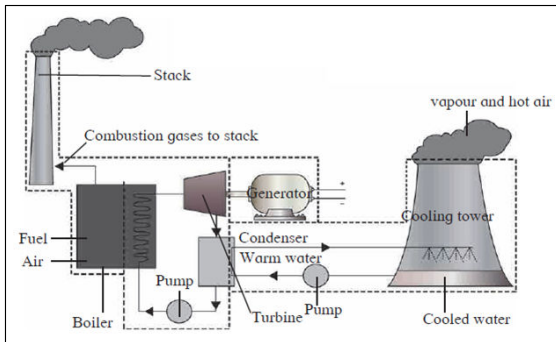
- a) Which mental disorder is shown in the picture?
- b) Which social message would you like to give through it?
5. Millipedes belong to phylum Arthropoda ? Explain ?
6. Read the following statements and justify the same in your own words with suitable examples. Geographical isolation of organisms gradually leads to speciation.
7. Draw neat labelled diagrams Fertilization in a test tube
8. a) Which substance is used to produce cheese?
b) Which enzyme was used earlier for cheese production?
c) Which enzyme is used to produce vegetarian cheese?

Q.4 : Answer the following in details.

(Any one)

5

1. a) What are stem cells?
b) State two types of stem cells.
c) How are they preserved?
d) What is pluripotency?
e) State the sources of adult stem cells.
2. Observe the given diagram and answer the following questions.



- i) Name the power plant shown in the figure.
- ii) How turbine is rotated in this plant?
- iii) Name the two towers seen in given diagrams.
- iv) What is the function of condenser?
- v) Name the fuel used in this plant.

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