

Chapter: 1 to 10

Q1(A) Multiple choice Question

(5)

- i) Continuous consumption of alcoholic & tobacco materials lead to -
 - a. Addiction
 - b. Impairs efficiency of nervous system and liver
 - c. Hinders ability of memorization and learning
 - d. All of the above
- ii) have the natural ability of decomposing man-made chemicals.
(a) Yeast (b) Microbes (c) Bacteria (d) Enzymes
- iii) The Hydroelectric capacity of Koyna dam is
a. 2400 MW b. 1960 MW c. 1900 MW d. 1961 MW
- iv) All of the following are geophysical disasters except
a. Poisonous gases b. Earthquakes c. Alkalization d. Volcano
- v) are present in the umbilical cord by which the foetus is joined to the uterus of the mother.
a. Stem cells b. Muscle cells
c. Neuron cells d. Bone cells

(B) Answer the following question

(5)

i) Find co- related terms

Thermal energy : Air pollution : : Nuclear energy :

ii) State True or False

Proteins of animal origin are called as 'first class' proteins.

iii) Match the pair

Column "A"	Column "B"
i. 1980	a. Environmental conservation Act
ii. 1986	b. E-waste rule
	c. Forest Conservation Act

iv) Name the following

An India born American citizen who is credited for use of biotechnology for Cleaning of Oil Spillage in Oceans-

v) Find the odd one out

Homeotherms - Crocodile, Snake, Scoliodon, Penguin

Q2(A) Give scientific reason (Any 2)

(4)

- i) The construction of turbine is different for different types of power plants.

OR

The scematic of a turbine also varies according to the type of power generation.

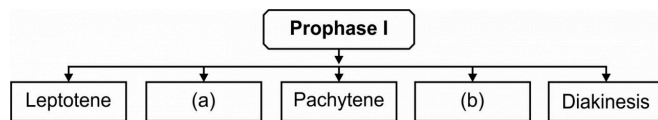
- ii) Alcoholism is always bad.

- iii) E-waste is hazardous in nature.

(B) Answer the following question (Any three)

(6)

i) Complete the chart



ii) Distinguish Between

Pre- disaster management and Post-disaster management.

- iii) Write any 4 strategies implemented by you for conservation of environment.

- v) Advantages of sexual reproduction over asexual reproduction.

- v) Vestigial Organs.

Q3 Answer the following question (any five)

- i) Suggest the remedies for the following situation:

1. What will you do if the child of your neighbor is addicted to tobacco chewing ?
2. What will you do if you have free space around your home ?

ii) Sexual Reproduction in humans.

(Vagina, Epididymis, Vas deferens, Uterus, Oviducts, Penis, Seminal vesicles, Ovary, Prostrate glands, testes)

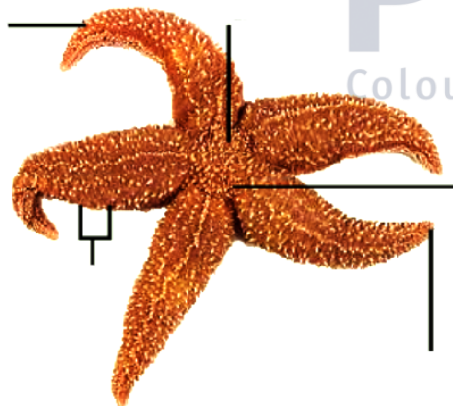
Female Reproductive Part	Male Reproductive Part

iii) Complete the paragraph:

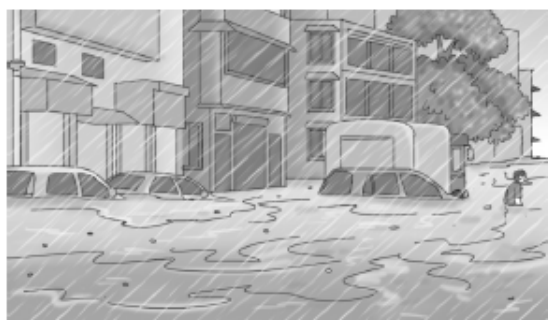
(red bone marrow, degenerated, umbilical cord, adipose, division, blastocyst)

Different tissues of the body are formed by of stem cells. Stem cells are present in the by which the fetus is joined to the uterus of the mother. Stem cells are also present in the stage of embryonic development. Stem cells are present in and connective tissue of adult human beings. It has become possible to produce different types of tissues and the part of any organ with the help of these stem cells.

iv) Sketch, label and classify - Star fish



v) How will be your pre-disaster and post-disaster management in case you face this disaster?



vi) Explain electrical energy generation and environment.

vii) i. What is cell division ?

- ii. Which type of cell division occurs in somatic cells of the body ?
- iii. Where does meiosis occur in the body ?

viii) What is energy pyramid ?

Q4 Answer the following question (Any one)

(5)

i) Cheese is produced on large scale from the abundantly available cow milk all over the world. First, chemical and microbiological tests of milk are performed. Some colours and microbes like *Lactobacillus lactis*, *Lactobacillus cremoris*, and *Streptococcus thermophilus* are mixed with milk. It imparts sourness to the milk. After this, to impart the dense texture, whey (water in yoghurt) needs to be removed. An enzyme, rennet obtained from alimentary canal of cattle was being traditionally used earlier. However, an enzyme protease obtained from fungi is used at present to produce vegetarian cheese. The whey is separated from yoghurt (which has some other uses). Then, process of production of cheese is started through steps like cutting the solid yoghurt into pieces, washing, rubbing, salting, and mixing of essential microbes, pigments and flavors. Then, cheese is pressed and cut into pieces and stored for ripening.

- i. Give any two microbes used in cheese production. (1)
- ii. Why the cheese is stored? (1)
- iii. What enzyme is used to prepare vegetarian cheese? (1)
- iv. What processes are involved in cheese production? (2)

ii) Label the diagram: Double fertilization in angiosperms.

