



**Q1(A) Write the correct alternative and rewrite the following sentence:**

**(5)**

- (1) Computers are used for ..... information.  
a) storing  
b) sharing  
c) communicating  
d) all of the above
- (2) The area where a plant or animal lives is known as .....  
a) habitat  
b) population  
c) ecosystem  
d) community
- (3) Malaria is caused by .....  
a) protozoa  
b) fungi  
c) bacteria  
d) virus
- (4) Maize is an example of .....  
a) Dicotyledonous plant  
b) Pteridophyte  
c) Monocotyledonous plant  
d) Gymnosperm
- (5) Problem of solid waste disposal can be reduced through .....  
a) recycling  
b) more timber  
c) lesser pollution  
d) population control

**Q1(B) Answer the following as per the given instructions :**

**(5)**  
**(1)**

- (1) Name the following  
Name any two components of biosphere
- (2) State true or false, if false correct it  
Bryophytes reproduce by spore formation.
- (3) Find the odd one out  
Microsoft word, Microsoft excel, Power point, Hard disk  
a) Microsoft word  
b) Power point  
c) Microsoft excel  
d) Hard disk
- (4) Find co-related terms  
Rhizobia : bacteria :: Yeast : .....
- (5) Match the pair

**(1)**

| Column "A"        | Column "B"   |
|-------------------|--|
| 1. Harmful waste  | a. Glass, rubber, carry bags, etc                  |
| 2. Domestic waste | b. Bandages, cotton, needles, etc.                 |
|                   | c. Radioactive material.                           |
|                   | d. Left over food, vegetables, peelings of fruits. |

**Q2(A) Give Scientific reasons (any two) :****(4)**

- (1) Naphthalene balls kept with clothes to be put away the insects or microbes.
- (2) There is a strong necessity of solid waste management.
- (3) Flow of nutrients through an ecosystem is cyclic.

**Q2(B) Answer the following questions (any three) :****(6)**

- (1) What are the different opportunities available in the software field?
- (2) Write any four characteristics of the plants belonging to division Bryophyta.
- (3) Distinguish between : Biotic components and Abiotic components.
- (4) Give any four radioactive waste.
- (5) What is the structure of lichen, a condiment? Where else is it used?

**Q3) Answer the following (any five) :****(15)**

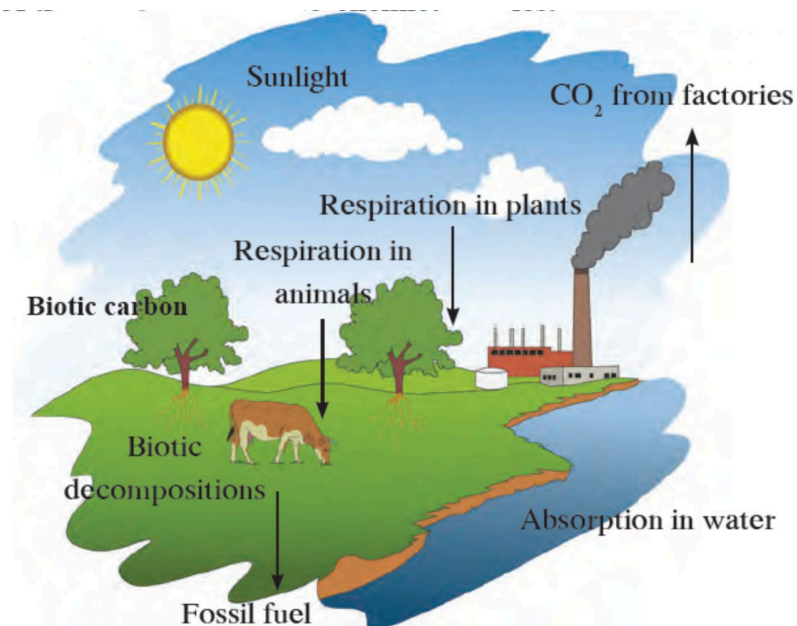
- (1) Complete the paragraph:

(Pune, Vijay Bhatkar, Param, research, supercomputer, Advanced Computing)

C-DAC, the well-known Centre for Development of ....., situated in ....., is the leading institute in India which conducts ..... in the field of computers. The first Indian ..... was made with help from this institute Valuable guidance for making this computer, named the .....computer was received from the senior scientist .....

- (2) The science that studies the inter-relationships between the various components of air, natural cycles, geological movements of the earth and climate is called meteorology. Meteorology includes the study of storms, clouds, rainfall, thunder, lightning etc. Depending upon the study of such factors, weather forecasts are made. They are useful to common people, farmers, fisheries, aviation services, water transport and various other organizations.
  - (1) What is meteorology?
  - (2) What does include in meteorology?
  - (3) What is the significance of meteorology?

(3)



- (1) What is meant by carbon cycle?
- (2) How is carbon converted from dioxide to carbohydrates?
- (3) Which are the two main biotic processes involved in carbon cycle?

(4) Complete the table.

| Disease   | Pathogen |
|-----------|----------|
| Pneumonia | .....    |
| Leprosy   | .....    |
| .....     | Protozoa |
| Influenza | .....    |
| Dandruff  | .....    |
| Hepatitis | .....    |

(5) (1) Depending on presence of seeds, what are the two groups Plants divided into?

(2) What are Angiosperms divided into?

(3) Give any two divisions of the sub-kingdom Cryptograms?

(6) The equilibrium of oxygen and carbon dioxide gases in the atmosphere is maintained by plants. Explain

(7) What is meant by microbes? What are their characteristics?

(8) Which are the special cell organelles that differentiate plant cells from animal cells ?

**Q4) Answer the following (any one) :**

**(5)**

(1) Which plant and animal diseases are caused by micro-organisms and what are the measures to be taken against them?

(2) Explain the nitrogen cycle in your own words with suitable diagram.

All the Best