



St. Lawrence High School

A JESUIT CHRISTIAN MINORITY INSTITUTION



Term – III (2018)

CLASS - VIII

Subject – Life Science

Date : 20.11.2018

Full Marks : 80

TIME : 2Hrs30mins.

SECTION - A

1. Choose the correct option:

(1 x 10 = 10)

1. Spores are produced by

- a) Fungi
- b) Hydra
- c) Rice plants
- d) Amoeba

Ans – a) Fungi

2. Which of the following is a communicable disease ?

- a) Cancer
- b) Allergy
- c) Typhoid
- d) Diabetes

Ans – c) typhoid

3. Long term use of alcohol frequently leads to

- a) Kidney failure
- b) Liver cirrhosis
- c) Lung cancer
- d) loss of immunity

Ans- b) liver cirrhosis

4. Which of the following is a renewable natural resource ?

- a) Petroleum
- b) Soil
- c) Coal
- d) Minerals

Ans – a) petroleum

5. The release of carbon dioxide into the air causes

- a) Acid rain
- b) Eutrophication
- c) Global warming
- d) Respiratory problem

Ans-c) global warming

6. Which of the following is a kharif crop ?

- a) Wheat
- b) Mustard
- c) Rice
- d) Gram

Ans- c) rice

7. Broadcasting is a method of

- a) levelling the land
- b) sowing seeds
- c) Irrigation
- d) improving soil fertility

Ans – b) sowing seeds

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8. In the intestine of cow, cellulose is decomposed by

- a) enzymes
- b) acids
- c) bacteria
- d) worms

Ans -

9. The introduction of exotic species into an area

- a) helps conserve wildlife
- b) helps protect biodiversity
- c) affects nature species adversely
- d) helps native species survive

Ans-b)

10. Most of the domestic fuel need of rural India is made by

- a) wind energy
- b) solar energy
- c) biomass energy
- d) Fossil energy

Ans –c) biomass energy

2. Fill in the blanks :

(1 x 5 = 5)

1. Resources that are regenerated by natural cycles are called ..renewable.....
2. The loudness of sound is measured by .decibels.....
3. Agar is obtained from a type of .algae.....
4. There are three types of honey bees- the queen, workers, and .dron/ male honey bee.....
5. Malaria is carried by the ...anopheles..... mosquitoes.

SECTION-B

4. Short answers question:

(2 x 5 = 10)

1. Mention 2 causes for the depletion of wildlife.

Ans – 2 causes are- 1. depletion of forests. 2. Destroying the wildlife for food or pleasure .

2. Mention 2 ways in which bacteria are useful to us.

Ans- 1. used as decomposers. 2. used to make antibiotics.

3. What are cash crops? Name two.

Ans- crops grown for commercial purposes .e.g. jute, cotton.

4. What is pollination ?

Ans- The transfer of pollen grains from the anther to the stigma.

5. Name any two organic fertilizers.

Ans- biomass, compost

5. Short answer question:

(3 x 5 = 15)

1. What is germination ? What conditions are necessary for the germination of Seeds ?

Ans- The process by which the dormant embryo becomes active and grows into a seedling.

Conditions – It requires water, oxygen and right range of temperature for germination.

2. Distinguish between biodegradable and non-biodegradable pollutants .(3 differences)

Biodegradable- pollutants which can be broken down by biological agents. These comprise organic wastes. e.g. leaf litter, crop residues.

Non-biodegradable- which cannot be broken down by biological agents. e.g. metal , plastic .

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3. Mention three steps that can be taken to control the pollution of soil.

Ans- 1. waste management 2. afforestation 3. \different modes like step farming e.t.c. farming to be adopted.

4. What is organic farming ? State two disadvantages of hybrid varieties.

Ans- Practise of raising crops without using inorganic chemicals like fertilizers.

DISADVANTAGES- 1. Food grown by such process must be inspected and certified. 2. organic manure should be prepared scientifically.

5. Name three harmful substances inhaled while smoking .Mention three

Harmful effect of smoking.

Ans- nicotine, carbon monoxide, tar.

Three effects- 1. cause throat cancer. 2. Cause bronchitis. 3. Lower resistance to infection.

6. State three differences between asexual and sexual reproduction.

Asexual – requires only one parent. common among lower organism. offspring have same characters

As parents. e.g. binary fission.

Sexual – two parents are required, variation of character in the offspring. e.g. animals.

7. What is the major disadvantage of harvesting wind energy?

Ans-1. requires more money to set up. 2. big land required. 3. Not possible to set everywhere.

SECTION-C

6. Long answer type questions: (any eight)

5x8=40

1. What is eutrophication? What causes it?

Ans- The accumulation of plant nutrients in water bodies and rapid growth of algae resulting from this is called eutrophication.

Cause- nutrients from organic wastes.

2. What are the advantages of crop rotation and mixed farming?

Ans – Crop rotation do not utilize same minerals. helps discourage pests, Crops are selected in such a way that they do not compete with each other.

3. Mention the advantages and disadvantages of hydroelectric energy?

Advantage- not causes pollution, lot of potential generated.

Disadvantage- expensive proposition. causes environmental problems like water logging.

4. Describe the precautions that have to be taken while sowing seeds?

1. seedlings have enough space for growth. They should not compete for sunlight and water.

2. seeds are sown at the right depth.

5. What is acquired immunity? How does artificial immunisation help us resist

Infections?

Ans – Children catch infections more easily than do adults because natural immunity develops with Exposure to disease. Such immunity is called acquired immunity.

Immunisation start with birth and continues upto the age of 5. Some remain a long time. When this is entered the body, the immune system is induced to form antibody. The body thus becomes equipped to fight off the diseases.

6. What is water harvesting? How does agriculture contribute to the degradation

Of soil?

Ans- It means trapping water from nature and putting it to use. it leads to collecting water by collecting in tank the rain water., ponds.

Pesticides used to increase crop production remain in soil and harm other plants. Use of excessive fertilizers causes acidic nature of soil or alkaline nature. makes the soil more prone to erosion.

Excessive irrigation can cause waterlogging, salinisation.

7. Mention and explain the steps involved in rearing of fish in a fishery.

Ans -1.eggs collected and allowed to hatch in tanks called hatcheries.2.hatchlings are fed and nursed in other tanks called nurseries from where they are shifted to rearing tanks.3. after 2 or 3 months the fry are shifted to stocking tanks from where they are caught after they attain full size.

8.What are the advantages and disadvantages of chemical fertilizers ?

Advantages- it provide nutrient at the right proportions.its soluble.easy to store.easy to transport,easy to handle.

Disadvantages –harm the texture of the soil,making it prone to erosion.turns the soil acidic or alkaline.

9.What are the advantages and disadvantages of organic manure ?

Advantages-improves soil fertility,improves soil texture.It encourages the activity of soil organism.

Disadvantages- it is bulky,difficult to transport,it does not provide all nutrients in right proportions.

10.What is the environmental significance of forest ?

Ans- 1.they are the source of timber,fuel,resins,medicines.2.it is main source of livelihood.3.regulates climate and increasing rainfall.4.control pollution.5 it is home for many species.
