

2021

Time : 3 hours

Full Marks : 60

Candidates are required to give their answers in their own words as far as practicable.

The figures in the margin indicate full marks.

Answer any **four** questions in which

Q. No. 1 is compulsory.

1. Choose the correct answer any **ten** of the following :  $1\frac{1}{2} \times 10 = 15$

(a) Main constituent of Biogas is :

- (i) Methane
- (ii) Ethane
- (iii) LPG
- (iv) CNG

(b) Hydrocarbon contains :

- (i) Hydrogen

- (ii) Carbon
- (iii) Both (i) and (ii)
- (iv) None of these

(c) Algal bloom causes death of :

- (i) Fishes
- (ii) Water insects
- (iii) Water plants
- (iv) All of these

(d) BOD determines quality of water on the basis of demand of :

- (i) Oxygen
- (ii) Carbon dioxide
- (iii) Both (i) and (ii)
- (iv) None of these

(e) Chemical substances that foreign to animal life are called :

- (i) Xenobiotic
- (ii) Antibiotic
- (iii) Antifungal
- (iv) None of these

(f) Bioreactors are used to produce :

- (i) Medicines
- (ii) Electricity
- (iii) Water
- (iv) None of these

(g) Bioleaching extraction of valuable metals with the help of :

- (i) Microbes
- (ii) Herbs
- (iii) Trees
- (iv) None of these

(h) Antibiotics are the chemicals used to control diseases caused by :

- (i) Nematodes
- (ii) Protozoa
- (iii) Bacteria
- (iv) None of these

(i) Nitrogen of air is fixed in soil by :

- (i) Azotobacter

- (ii) Nitrobacter
- (iii) Rhizobium
- (iv) All of these

(j) Mycorrhiza is a group of :

- (i) Algae
- (ii) Fungi
- (iii) Bacteria
- (iv) None of these

(k) Root nodules are primarily found in :

- (i) Legumes
- (ii) Cereals
- (iii) Bacteria
- (iv) None of these

(l) Microbes that pollute water are :

- (i) Bacteria
- (ii) Virus
- (iii) Protozoa
- (iv) All of these

(m) Wastes used to produce biogas are :

- (i) Plant waste

(ii) Animal waste

(iii) Cow dung

✓(iv) All of these

✓(n) Bioremediation of industrial wastes is done by:

(i) Microbes

✓(ii) Chemicals

(iii) Insecticides

(iv) Fungicides

✓(o) Sewage is a waste water produced by:

✓(i) Houses

(ii) Municipality

(iii) Hospitals

(iv) All of these

2. Write short notes any two of the following:

$$1 \frac{1}{2} \times 2 = 15$$

(a) Biomining

(b) Importance of biogas

(c) Algal bloom

(d) Importance of Microbes

✓3. What is biogas? Explain process of biogas production. 15

4. Explain roles of microbes in waste management. 15

✓5. What are causes of water pollution? 15

✓6. What is Mycorrhiza? Describe its role in agriculture. 15

7. Describe role of microbes in production of alcohol. 15



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