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RNLKWC/B.A.-CBCS/VS/MB/H/DSE2T/21

2021

Microbiology

[HONOURS]

(CBCS)

(B.Sc. Fifth Semester End Examinations-2021)

PAPER-DSE2T

Full Marks: 40

Time: 02 Hrs

The figures in the right hand margin indicate marks

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

Illustrate the answers wherever necessary

Group-A

Answer any five from the following:

5x2= 10

1. Define mycoporation. 2
2. What is humus? Mention its composition. 1+1
3. What do you mean by “Biotech feed”? 2
4. What is heritignet? 2
5. What are PSMs? Give example. 1+1
6. What is golden rice? 2
7. What is heterocyst? Write the function of heterocyst. 1+1
8. What is methanogens? 2

(2)

Group-B

Answer any four from the following: **4x5 = 20**

1. a) What do you mean by Soilhorizon?
b) Describe different horizons found in soil. 1+4
2. Describe the different mechanism involved in biocontrol 5
3. Describe the different properties of soil. 5
4. Write the procedure for the mass production of Azotobacter bio fertilizer. 5
5. What are the key enzyme involved in hemicellulose degradation?
6. Write the microbial decomposition of cellulose. 5

Group -C

Answer any one of the following : **10x1 = 10**

1. What is symplasmid? Write the function of leghemoglobin.
Describe the organization of the nod gene cluster on the symplasmid. 2+3+5
2. a) Give two examples of plants used for the production of Petroleum.
b) State the diversity of microorganism present in soil habitat.
c) Write the name and function of novel co-enzyme involved in methanogenesis. 2+3+5
