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Registration No:

Q.4. Write **TRUE** or **FALSE** against the following statements

a) Bacteria are classified in animal kingdom due to motile and non photosynthetic character.

b) Addition of organic matter with wide C:N causes less available N in soil.

c) All gram negative cell wall contains techoic acid bound to peptidoglycan layer.

GIET UNIVERSITY, GUNUPUR – 765022

AR-2018

2nd SEMESTER REGULAR EXAMINATIONS, SEPT/OCT 2019-20

RS19BSCAG574

B.Sc (Ag)

 $[10 \times 0.5 = 5]$





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d) Heap method of composting is completely anaerobic in nature.
e) The inorganic source in soil comprises about 95-98 % of total nitrogen.
f)Xylan is the main carbohydrate found in hemicelluloses
g)An introduction to MICROBIOLOGY is written by Alexander Martin.
h)Carbon bound Sulphur includes aminoacids, protein, polypeptides etc.
i)Desulphovibrio and desulphomataculum are sulphur oxidizing bacteria.
j)Arbuscularmycorrhiza is another class of ectomycorrhiza.

SECTION – B: (Short Answer Questions)

(Attempt any **five** questions. Each question carries equal marks)

[5 x 6 =30]

- 5) Write significance of C:N ration of added organic matter in soil. Give example of one each of bacteria and fungus involved in organic matter decomposition
- 6) Describe in brief about nodule formation in legume root.
- 7) Narrate Sulphur cycle in soil with diagram.
- 8) Classify the Biofertilizers and write procedure for seed treatment with it.
- 9) What is rhizosphere? How microbial community of it benefits plant?
- 10) Describe the role of microorganism for preparation of good quality silage.

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