



K17U 1655

Reg. No. :

Name :

V Semester B.Sc. Degree (CBCSS – Reg./Sup./Imp.)
Examination, November 2017
(2014 Admn. Onwards)
Core Course in Botany/Plant Science
5B07BOT/PLS – MICROBIOLOGY AND PLANT PATHOLOGY

Time : 3 Hours

Total Marks : 40

SECTION – A

Answer **all**.

- The condition where the flagella are distributed all over the body of the bacterium is
 - Atrichous
 - Lophotrichous
 - Amphitrichous
 - Peitrichous
- Viruses consist of
 - Purely proteins
 - Nucleoproteins
 - Purely nucleic acid
 - Phosphates and sugars
- The causative organism of rhizome rot of ginger is
 - Bacteria
 - Fungi
 - Mycoplasma
 - Virus
- The production of nitrates from ammonia through Nitrosomonas is called
 - Nitrification
 - Ammonification
 - Nitrogen fixation
 - De-nitrification

(4×1=4)

SECTION – B

Answer **any eight**.

- Define phyllosphere.
- Write the general characters of Cyanobacteria.
- Differentiate between cankers and necrosis.
- Give a brief account on Gram staining.

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9. Comment on PPLO.
10. Write what you know about Spirochaetes.
11. Write short notes on bio-pesticides.
12. What is food poisoning ? Give one common example in food poisoning.
13. Discuss autotrophic bacteria.
14. Write the name of the pathogen and symptoms of Mahali disease of arecanut.
15. What are plasmids and mesosomes ?
16. Explain symbiotic nitrogen fixation. (8×2=16)

SECTION – C

Answer **any four**.

17. Viruses are living particles. Comment.
18. Explain synthesis of amino acids.
19. Give a brief account on SCP.
20. Write the causative organism, symptoms and control measures of Bunchy top of Banana.
21. Explain prophylaxis.
22. Discuss Pasteurisation. (4×3=12)

SECTION – D

Answer **any one**.

23. Give an account on classification of plant diseases on the basis of causative organisms and symptoms with examples.
24. Microbes are very beneficial to mankind. Discuss.
25. Explain the genetic recombination in bacteria and discuss their role in agriculture. (1×8=8)