

GURUDAS COLLEGE
INTERNAL EXAMINATION 2020
BSc (Semester IV) Under CBCS
MICROBIOLOGY (HONS)
PAPER CC 9

TIME 2 Hr

FULL MARKS: 50

GROUP A
(25 MARKS)

- Q. 1 Answer any **FIVE** questions 5x4=20
- a. What is terrestrial ecosystem? Explain with example
 - b. Draw a diagram of a typical Nitrogen Cycle mentioning its all important part.
 - c. Draw a diagram of a typical waste management system and mention its important functional part.
 - d. What is the difference between SWM and LWM?
 - e. Write briefly about Anaerobic sludge digestion
 - f. What is Bioremediation? Explain it with a proper example.
 - g. State three important negative association between microbes with proper example.
 - h. What is the difference between symbiotic and asymbiotic Nitrogen fixation.
- Q. 2 Answer any **TWO** questions 2 x 2.5=5
- a. What is solubilization and immobilization?
 - b. Explain briefly about ruminant microflora of COW.
 - c. Write a short note on Asymbiotic Nitrogen Fixation.
 - d. What is biosurfactants? Explain with example.

GROUP B
(15 MARKS)

- Q. 3 Answer any **THREE** questions
- a. Diagrammatically represent the process of BOD measurement of waste.
 - b. What is Rhizosphere, plant exudates and Rhizosphere Effect?
 - c. How solid agar medium is used to detect amylase producer in soil? Explain with diagram.
 - d. Draw a diagram of MPN test and mention its important part.
 - e. Why isolation of fungi need a temperature of 28°C? What medium must be used to isolate yeast and mould from natural source and why?

GROUP C
(10 MARKS)

- Q. 4 Answer any **FOUR** 4 x 2.5= 10
- a. What is the difference between BOD and COD?
 - b. What is nematophagus fungi? Give its importance.
 - c. What is the difference between mutualism and commensalism? Example.
 - d. What is composting? How it is different from Humus?
 - e. What are different types of soil microorganisms found in nature?
 - f. Why air is not a suitable medium for growth of bacteria justify with example.

NOTE: SUBMIT PDF OF ANSWER SCRIPT TO infomcbasem4@gmail.com WITHIN 4:30 PM