V.P. & R.P.T.P. SCIENCE COLLEGE **B.Sc.; Internal Examination** Microbiology: US06CMIC05

Friday: 10.03.17

(a) Rhizobia

(c) Frankia

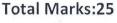
11.00 a.m. - 12.30 p.m

Q.1.Attempt the following multiple choice questions.

- 1. Which of the following is an example of free living nitrogen fixing bacteria? (b) Azotobacter (d) None of the above.
- 2. Alkyl Benzyl Sulfonate is
 - (a) anionic laundry detergent
 - (b) surface active molecule
 - (c) having a polar sulfonate and a nonpolar alkyl end
 - (d) all of the above
- 3. ----- acts as inhibitor/inhibitors of biogas production.
 - (a) ammonia
 - (b) sulphates
 - (c) antibiotic
 - (d) all of these
- Q.2. Attempt the following. (Any two)
 - 1. What is thuricide?
 - 2. Define (i) xenobiotic compound (ii) recalcitrant compound
 - 3. Enlist the various digesters used in the production of biogas.

Q.3. Write a note on the use of Rhizobia as a biofertilizer and its production.	(06)
Q.3. Write a note on microbial insecticides.	(06)
Q.4. Explain the biomagnification of DDT . OR	(06)
Q.4. Explain the biodegradation of oil pollutants.	(06)
Q.5. Explain with the help of a neatly labelled diagram the design of a gobar gas plant. OR	(06)
0.5. Write a note on syntrophic hydrogen producing bacteria and methanogenic	

(06)bacteria.



Scie

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(03)

(04)