

**V.P. & R.P.T.P. SCIENCE COLLEGE**

**B.Sc.; Internal Examination**

**Microbiology: US06CMIC05**

**Friday : 10.03.17**

**Total Marks:25**

**11.00 a.m. - 12.30 p.m**

Q.1. Attempt the following multiple choice questions. **(03)**

1. Which of the following is an example of free living nitrogen fixing bacteria?

- (a) Rhizobia
- (b) Azotobacter
- (c) Frankia
- (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) **(04)**

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)**

OR

Q.3. Write a note on microbial insecticides. **(06)**

Q.4. Explain the biomagnification of DDT. **(06)**

OR

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. **(06)**

OR

Q.5. Write a note on syntrophic hydrogen producing bacteria and methanogenic bacteria. **(06)**

