

210

M. Tech Env. Sci. (I-year)
Final Term Examination
EN-102 (Environmental Microbiology)
Date 5.12.2006

MM: 36

Time : 3 hr

- Q1 Differentiate between 2x4=8
- a) virion and prions by giving suitable examples.
 - b) Bacteriophage and cyanophage
 - c) Photophosphorylation and oxidative phosphorylation
 - d) Biosorption and bioaccumulation
- Q2 Describe any four disinfectants with their mode action and application. 3
- Q3 Give different biochemical pathways whereby glucose is utilized by microorganisms indicating account of ATP yield. 3
- Q4 Write short notes on ANY FOUR of the following 3x4=12
- a) Biocorrosion
 - a) Environmental genomics
 - b) Phytoremediation
 - c) Pollution indicators
 - d) Biomining
- Q5 List any five bacterial genera found in domestic sewage. How can you enumerate the microbial load in any waste water? 4
- Q6 How can you differentiate between spore and cyst? What are the various physiological features by which a spore becomes resistant to adverse conditions? 3
- Q7 Why viruses are called as genetic parasites? Why there is no vaccine against HIV virus. 3