## B.Tech. First Year Had Semester 2008

## Basic Civil Engineering & Environmental Science

## Date - 1/5/2008

Max. Marks - 50

Q.1 Write short notes (any three)	(6)
(a) Nitrogen Fixation (b) BOD/COD ratio (c) Anionic Surfactants (d) Atmospheric Stability	(0)
Q.2 (a) What is the significance of water pollution laws and standards? Wr down the drinking water standard for MBAS (anionic surfactants) & OR	ite (3) & BOD.
(a) Describe the plume behavior. On what factors it depends. Give sket different types of plumes.	tch of (3)
(b) What is solid waste? Define garbage and rubbish. Explain composting a neat figure.	ng with (4)
OR  (b) What is rain water harvesting? Describe a neat diagram of the schem rain water harvesting in shopping malls. What are the precautions for	ne of (4) or that?
Q.3 (a) What is the use of queen closer?	(1)
(b) Give properties and use of Ordinary Portland Cement	(2)
OR (b) Differntiate PCC with RCC.	(2)
(c) Explain along with neat sketch English bond OR Flemish bond.	(3)
(d) Explain Grillage foundation with neat sketch. OR	(3)
(d) Explain the raft foundation with neat sketch.	(3)
(e) What are the different criteria for the selection of proper flooring.	(2)
(f) Explain with neat sketch King Post Truss OR Queen Post Truss.	(3)
Q.4 (a) What is leveling staff? Discuss different types of leveling staves.	(3)
(b) Explain the methods of reducing the levels and their relative advantage disadvantages.	
OR (b) What are the temporary adjustments of a dumpy level.	(3)