No. of Printed Pages : 2

BICE-018

BTCLEVI

Term-End Examination

December, 2012

BICE-018 : ENVIRONMENTAL ENGINEERING-II

 Time : 3 hours
 Maximum Marks : 70

Note : Attempt *any seven* questions and each question carry equal marks. Use of sceintific calculator is permitted.

- Describe in brief the methods of collection of various types of wastes in the conservancy system.
- The BOD of sewage incubated for one day at 30°C
 has been found to be 100 ppm. What will be the 5 day BOD at 20°C. Assume K=0.12 (Base 10) at 20°C.
- What do you understand by sedimentation of 10 waste water? Describe in brief various types of settlings.
- 4. Explain with the help of neat sketch, the 10 construction and working of a conventional trickling filter. What are its loading rate?

BICE-018

P.T.O.

00863

- Describe various loading criteria used for aeration 10 tank of activated sludge process.
- Explain the principles of aerobic, anaerobic and 10 facultative type stabilization ponds.
- What do you mean by sludge thickening? Describe 10 various methods of sludge thickener.
- Design a septic tank for a hostel housing 125 10 persons. Also design the soil absorption system for the disposal of the septic tank effluent assuming the percolation rate as 20 minutes per cm.
- 9. What do you understand by the advanced waste 10 water treatment ? How is it different from the conventional treatment?
- 10. Discuss in brief various treatment processes 10 adopted for treating industrial waste water.