BACHELOR OF CONSTRUCTION ENGINEERING EXAMINATION, 2017

(4th Year, 2nd Semester, Old Syllabus)

Environmental Enginnering

Time: Three hours

Full Marks: 100

Answer any five questions.

5 + 8 + 7 = 20

- 1. a) What do you mean by pollutant? we can define anything as pollutant-explain in your words.
 - b) How sampling is done in designing a treatment plant- explain in detail.
 - c) How will you determine/decide the flow sheet for treatment of a particular waste water-comment in brief.

10+10=20

2. Mention the basic constituents of conventional waste water and their source also. Draw with neat sketches the primary and secondary flow sheets with due lebels in the units drawn.

5+15=20

3. What is a septic tank. Give a guide line in designing a septic tank.

4+4X4=20

- 4. What do you mean by activated sludge process? Write brief notes on the following:
 - a) MLSS, b)MLVSS, c)F/M ratio, d)Recirculation ration

5+15=20

5. What do you mean by free chlorine? Give a brief account on what happens in disinfecting wastewater which contains primarily ammonia.

10+10=20

- 6. a) What are types of air pollutants? Give a brief note on the same.
 - b) Mention types of sources of air pollutaion and briefly explain them.