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Roll No

CE-603 (GS)

B.E. VI Semester

Examination, December 2017

Grading System (GS)

Environmental Engineering - I

Time: Three Hours

Maximum Marks: 70

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Note: i) Attempt any five questions.

ii) All questions carry equal marks

 Discuss "Logistic curve method" for forecasting population. Derive standard equation for such a curve.

2. With the help of following data predict population of a city for the year 2050, by incremental increase method.

Year

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1980

1990

2000

2010

Population 3,41,000 4,15,000 4,70,500 5,45,000 6,10,000

3. Write IS standards of drinking water.

4. Explain bacteriological examination of water for finding M.P.N. of E-coli.

5. Differentiate between slow-sand and rapid-sand filter.

6. Explain with sketch "Back-washing" operation of rapid gravity filter.

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7. Explain graphical method of calculating capacity and height of a service reservoir.

Answer any four of the following:

What are the factors affecting l.p.c.d.?

Draw the sketch of "River-Intake" showing all its components.

Explain break-point chlorination.

Describe leak-detection test for water supply mains.

Enlist sanitary appliances used in general.

What are different types of plumbing?

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