EKS-341

UITians

B.E. VII Semester (CGPA) Civil Engg. Examination 2017

ENVIRONMENTAL ENGINEERING - III

Paper: CE-701

Time Allowed: Three Hours

Maximum Marks: 60

Note: Attempt all questions. Each question carry equal marks.

Make suitable assumptions and draw neat sketches wherever necessary.

- Q.1. a) Discuss about the design period of a project and water demand per 100 person.
 - b) Describe quality of water supply from any River?
 - a) Describe methods for the estimation of following parameters in water sample:
 - i) Nitrate and Nitrite
 - ii) Sulphide
 - b) Explain the sources of arsenic contamination of ground water.
- Q.2. a) Describe method for the estimation of bacteriological parameter in water sample.

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Discuss various factors that affect the average per capita water consumption.

- b) Explain different types of pumping system in pumping station.
- Q.3. a) Describe various types of filter and coagulants commonly used in water treatment.
 - b) Explain different water softening process.

OR

- a) What are aerobic treatment process show the methods of aeration?
- b) Give the utilisation of breack point chlorination in disinfection process during the treatment of water.
- Q.4. a) Explain with the sketch the different pipe fitting's in distribution system.
 - b) Enlist different types valves and appurtenances.

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- a) Describe the maintenance of distribution system.
- b) Draw the design of service reservoir according the capacity of 50,000 liters of water.
- Q.5. a) Discuss the management of water supply in rural water supply system.
 - b) Discuss some of the advantages of physiochemical treatment of sewage as opposed to biological treatment.

OR

- a) Describe sanitary appliance and their operation.
- b) Discuss about building drainage system of plumbing.

