

S.B. Roll No.....

WATER SUPPLY & WASTE WATER ENGG.

4th Exam/CIVIL/0514/May'17

Duration: - 3 hrs

M. Marks: - 75

SECTION A

Q1. Fill in the blanks.

10x1.5=15

- a. Per capita consumption for domestic use is.....
- b. Alum is used for.....
- c. Kitchen waste is known as.....
- d. Smoke test is conducted for
- e. Pollution control board in India was created in the year.....

State True / False

- f. Trickling filters are used to treat drinking water.
- g. G. I. pipes are used for service connections.
- h. Elevated reservoirs are commonly known as overhead tank.
- i. Rapid sand filter required large area as compared to slow sand filter.
- j. A trap is provided for preventing the entry of fresh air.

SECTION B

Q2. Attempt any five Questions.

5x6=30

- a. What is turbidity? What is its importance?
- b. What is break point chlorination?
- c. Compare combined and separate system of sewerage.
- d. What is sedimentation? Give advantages of plain sedimentation.
- e. Describe the advantages and disadvantages of plastic pipes.
- f. Enlist various factors helping self-purification of streams. Define dilution factor.
- g. What are the various types of pipe used for distribution of water?
- h. Write the short note on drop manhole.

SECTION C

Q3. Attempt any three Questions.

3x10=30

- i. Differentiate between slow sand filters and rapid sand filters.
- ii. Why sewage water treatment is needed? Draw flow diagram for complete treatment of domestic sewage by any method.
- iii. Explain sewage sickness. Describe briefly any three tests for house drainage.
- iv. Enlist different types of pipe joint. Describe with neat sketches spigot and socket joint and flanged joint.
- v. Why trap are provides? Explain various type of trap with diagram.