

UNIVERSITY OF PETROLEUM AND ENERGY STUDIES

End Semester Examination, December 2017

Program : B. Plan Semester : V

No. of page/s : 2

All questions are compulsory.

Section A

(Each question carry 4.0 marks)

- **Q.1.** Write short notes on:
 - i. NUSP
 - ii. DEWATS
 - iii. Pyrolysis
 - iv. Low cost appropriate Technology for Sanitation
 - v. Significance of Rain Water Harvesting

Section B

(Each question carry 10 marks)

- **Q.2.** What do you understand by 'sanitary land filling'? Draw a neat sketch and explain the construction details practiced for sanitary land filling.
- **Q.3.** Discuss the Sewer Treatment Process for Small & medium Sized Cities with the help of Flow diagram.
- **Q.4.** Estimate roughly the sizes of supply conduits leading to adequate service reservoir serving a relatively small town of 25,000 population.
- **Q.5.** Enumerate and discuss briefly the various methods, which are adopted collectively for treating public water supplies from a perennial river.

Section C

(Each question carry 20 marks)

Q.6. What are the requirements of a Good Distribution System? Elaborate upon the various type of Layouts of Distribution Networks & briefly discuss their advantages & disadvantages.