xv) Define screening & its purpose.

SECTION-C

Note: Long answer type questions. Attempt any three questions. 3x10=30

Q.3 Give full detail about the layout of distribution system.

Q.4 Describe the construction, working principle & operation of rapid sand filter.

Q.5 Write the short note on any two of the following:

a) Lampholes

b) variations in rate of demand

c) Preparation of bedding of sewers

Q.6 Give at least ten differences between standard rate tripling filter & high rate trikling filter.

Q.7 Draw & explain the layout of house drainage system.

No. of Printed Pages : 4 120742/030742

Roll No. 14/18906 515

4th Sem. / Civil / Brick Tech. / Constn. Mgmt / Highway Engg.

Subject : WS & WWE

Time : 4 Hrs. M.M. : 100

SECTION-A

Note: Very Short Answer type questions. Attempt any 15 parts. (15x2=30)

Q.1 a) Whole some water

b) Percapita demand

c) Polluted Water

d) Name any two coagulants.

e) Stop-cock.

f) Timbering of trenches

g) Goose Neck

h) Waste water engineering.

i) Storm sewage.

j) Name the different tests used for better functioning of sewer lines.

k) C.O.D.

l) Name the different types of nuisance due to disposal.

m) Primary Classifier.

n) Building Drainage.

o) Aeration

p) Service Reservoirs.

q) Lagooning.

r) Water Closets.

SECTION-B

Note: Short answer type questions. Attempt any ten parts 10x4=40

Q.2 i) What is hydrological cycle?

ii) Explain how the future population of a town is estimated.

iii) Explain in brief MFT..

iv) Define the term "optimum dose of coagulants".

v) What are the requirements of good meter?

vi) How we mark the alignment of pipes?

vii) Explain how we can estimate the pipe size.

viii) What are the methods of collection of sanitation? Explain any one in brief.

ix) What is dry weather flow? How we can determine it?

x) What are the different methods of dewatering the trenches.

xi) Write a short note on Total solids.

xii) What precautions should be taken while disposal of sewage?

xiii) Give the objectives of skimming tanks.

xiv) What are the principles of building drainage?