xiv) What are different types of river training works?

xv) What is an energy dissipator? For what purpose it is used?

SECTION-C

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

Q.3 List the causes of water logging. What are the ill effects of water logging? How it can be prevented?

Q.4 Explain the suitability, layout and advantages of drip irrigation.

Q.5 Explain the classifications of dam in detail.

Q.6 What are the factors affecting duty of a canal. Discuss.

Q.7 Discuss in brief different type of spill ways.

No. of Printed Pages : 4 120743

Roll No. .....

4th Sem. / Civil, Brick Tech,Const. Mgnt & Highway Engg.

Subject : Irrigation Engg.

Time : 3 Hrs. M.M. : 100

SECTION-A

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

Q.1 a) Define irrigation.

b) Define delta

c) What is optimum water depth?

d) Gross command area.

e) Define run off.

f) Define transpiration.

g) What is border flooding?

h) What is an inundation canal?

i) Define critical velocity ratio?

j) What is a tube well?

k) What is gravity dam?

l) Define free board.

m) Define weir.

n) What is an under sluice?

o) What is cross drainage work?

p) What is canal head regulator?

q) Define river training works.

r) What are drains?

SECTION-B

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

Q.2 i) Define duty. How it can be expressed?

ii) Define crop rotation.

iii) What is Symon's rain gauge? How it works?

iv) What are the advantages of surface irrigation?

v) What is canal lining? Why canal lining is necessary?

vi) Give procedure for design of irrigation canal using Lacey's theory.

vii) Give difference between well and canal irrigation.

viii) What do you understand by confined and unconfined acquifiers?

ix) What points should be kept in mind while selecting site for a dam?

x) What are design principles of earth dam?

xi) What is regular work? What are its functions?

xii) Discuss the various types of escapes.

xiii) What are river meandering? What are its causes?