SECTION-C

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

Q.3 Describe the functions of different parts of a head work.

Q.4 Explain different types of gravity dams.

Q.5 What are tube well and open well irrigation? Give their advantages and disadvantages.

Q.6 Describe the composition and method of construction of concrete lining.

Q.7 Define yield of a well. Describe the methods of determing the yield of a well.

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120743

4th Sem. /Civil /BT/ CM

Subject : Irrigation Engineering

Time : 3 Hrs. M.M. : 100

SECTION-A

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

Q.1 a) Delta

b) Culturable commanded area

c) Gravity water

d) Run off.

e) Parenial canal

f) Controlled flooding

g) Berm

h) Borrow pit

i) Confined acquifer

j) Depression head

k) Arch dam

l) Divide wall

m) Super passage

n) Stepped fall

o) Impermeable groynes

p) Head regulator

q) Rabi crops.

r) Syphon spill way

SECTION-B

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

Q.2 i) Derive the relation between duty and delta.

ii) Give brief history of development of irrigation in India.

iii) Describe the working of a bucket type rain gauge.

iv) What is hydrograph?

v) Write a note on reclaimation of soil.

vi) How water logging can be prevented?

vii) What are the methods of river training?

viii) Explain briefly APM outlet.

ix) What is a guide bank? sketch it.

x) Define pipe crossing. Why it is necessary?

xi) Draw the cross section of a zoned earthen dam.

xii) Explain the construction of a recharge well.

xiii) What are Rabi crops? Give their water requirements?

xiv) Sketch an unlined canal fully in cutting.

xv) What are the functions of cross drainage works?