

No. of Printed Pages : 4  
Roll No. ....

220746

**4th Sem / Civil**  
**Subject : Irrigation Engineering**

Time : 3 Hrs.

M.M. : 60

**SECTION-A**

**Note:** Multiple choice questions. All questions are compulsory (6x1=6)

- Q.1 Wheat is the \_\_\_\_\_ Crop.  
a) Kharif                      b) paren  
c) Rabi                        d) Non-perenial
- Q.2 Runoff is measured in  
a) m<sup>3</sup>/s                        b) m<sup>3</sup>/min  
c) m<sup>3</sup>/h                        d) none of these
- Q.3 A \_\_\_\_\_ is a graph which show the variation of discharge with time.  
a) Hydrograph              b) Hydrogram  
c) Hydrology                d) All of the above
- Q.4 When the drain is over the canal, the structure provided is known as  
a) Aqueduct                  b) Canal syphon  
c) Super-passage          d) syphon Aqueduct

(1)

220746

- Q.5 The solid construction put across the river to raise its waterlevel is known as \_\_\_\_\_  
a) Barrage                      b) Bridge  
c) Head Regulator          d) Weir
- Q.6 The chances of Waterlogging are more if rainfall is  
a) More                        b) Less  
c) Both a & b                d) None of these

**SECTION-B**

**Note:** Objective/ Completion type questions. All questions are compulsory. (6x1=6)

- Q.7 Define furrow irrigation.
- Q.8 When drainage and canal water are allowed to mix it is known as \_\_\_\_\_.
- Q.9 A canal is lined to reduce \_\_\_\_\_ Lods.
- Q.10 A canal fall is constructed across a canal to lower down its \_\_\_\_\_
- Q.11 Define Waterlogging.
- Q.12 Name two types of Automatic Rain gauges.

**SECTION-C**

**Note:** Short answer type questions. Attempt any eight questions out of ten questions. (8x4=32)

- Q.13 What are the ill effects of irrigation.

(2)

220746

- Q.14 What do you understand by Crop Rotation of Crops.
- Q.15 Comparison between Canal and Tubewell irrigation.
- Q.16 Describe Condition favourable for Sprinkler irrigation.
- Q.17 What is the necessity of Canal Lining.
- Q.18 Explain various causes of failure of Earthen Dam.
- Q.19 Define Canal Head work.
- Q.20 Write short note on Super Passage.
- Q.21 Write short note on Canal Escape.
- Q.22 Establish a relation between duty, delta and base period.

#### **SECTION-D**

**Note:** Long answer type questions. Attempt any two questions out of three questions. (2x8=16)

- Q.23 Explain the effect and causes of Waterlogging.
- Q.24 Explain the types of falls.
- Q.25 What is surface irrigation? Explain with different methods.