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

Time : 3 Hrs.

M.M. : 60

**SECTION-A**

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

Q.1 Rich is the \_\_\_\_\_ crop.

- a) Kharif
- b) Cash
- c) Rabi
- d) None of these

Q.2 The chances of waterlogging are more if rainfall is \_\_\_\_\_

- a) More
- b) Less
- c) None of these
- d) Both a and b

Q.3 When a canal is carried under a natural drainage the structure is called \_\_\_\_\_

- a) Superpassage
- b) Divide Wall
- c) Level crossing
- d) Aqueduct

Q.4 Dams which are constructed for the purpose of diverting water of the river into the off taping canal is \_\_\_\_\_

- a) Storage Dams
- b) Detention Dams
- c) Diversion Dams
- d) Overflow Dams

Q.5 \_\_\_\_\_ is a structure constructed on an irrigation canal for disposal of surplus water from the canal.

- a) Barrage
- b) Canal Escape
- c) Outlet
- d) Fall

Q.6 The process of artificially supplying water to soil for raising crop is \_\_\_\_\_

- a) Rainfall
- b) Agriculture
- c) Irrigation
- d) Waterlogging

**SECTION-B**

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

Q.7 Diversion head work control the entry of \_\_\_\_\_ particles into the canal.

Q.8 Waterlogging take place due to \_\_\_\_\_ in ground water table.

Q.9 Name two types of Non-automatic rain gauge

(1)

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(2)

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- Q.10 A Canal fall is constructed across a canal to lower down its \_\_\_\_\_
- Q.11 A \_\_\_\_\_ is a graph showing the variation of discharge with time.
- Q.12 Gravity dams are generally \_\_\_\_\_ in plan

### SECTION-C

**Note:** Short answer type questions. Attempt any eight questions out of ten questions.  $(8 \times 4 = 32)$

- Q.13 Define Necessity of Irrigation.
- Q.14 Establish the relation between duty, delta & Base period.
- Q.15 What are the factor affecting runoff. Describe briefly
- Q.16 What are the advantages & Disadvantages of sprinkler Irrigation.
- Q.17 Define Canal breaches. Explain its causes.
- Q.18 What are the objectives of diversion headworks.
- Q.19 Differentiate b/w Weir & Barrage
- Q.20 Describe Aqueduct and Super passage.
- Q.21 What are effect of water logging?
- Q.22 Define Meandering. What are the causes of Meandering.

### SECTION-D

**Note:** Long answer type questions. Attempt any two questions out of three questions.  $(2 \times 8 = 16)$

- Q.23 What is surface Irrigation. Explain various methods of surface irrigation.
- Q.24 What are the different type of Canal Lining? Explain.
- Q.25 Explain various causes of failure of Earth Dams.