

S.B. Roll No.....

IRRIGATION ENGINEERING
4th Exam/Civil/0511/May'18

Duration: 3Hrs.

M.Marks:75

SECTION-A

Q1. Do as directed.

15x1=15

- a. Irrigation is Supplementary to _____.
- b. Irrigation in which water is not available for all the months of the year is called _____.
- c. Maize is _____ food crop ,
- d. If area irrigated is less, duty will be _____.
- e. Delta is measured in _____.
- f. If temperature is more, duty will also be more. (T/F)
- g. The science which deals with the measurement of water is called _____.
- h. Evaporation which takes place through plants is called _____.
- i. The discharge in the stream is more in _____ season.
- j. Dam is a _____ work.
- k. Runoff is measured in _____.
- l. Water logging occurs due to _____.
- m. Works provided to cross the drainage are known as _____.
- n. Weirs are provided with _____ at the crest.
- o. The head works which have the tendency to divert the flow of the river are known as _____.

SECTION-B

Q2. Attempt any five questions.

5x6=30

- i. What is irrigation? Why irrigation is essential?
- ii. Difference b/w lifts and flow irrigation.
- iii. Difference b/w Furrow method and sprinkler method of irrigation.
- iv. Define duty, delta and base period.
- v. Define crop period and crop ratio.
- vi. What are the various components of flow irrigation system?
- vii. What is a reservoir? What do you mean by silting of reservoirs?

SECTION-C

Q3. Attempt any three questions.

3x10=30

- a. What is an aqueduct? What are the different types of aqueduct? Describe them with neat sketches.
- b. What is a gravity dam? What are their advantages and disadvantages?
- c. What is canal head works? Describe the various components of canal head works.
- d. What is canal lining? What are its advantages? Give the comparison of brick and concrete lining.
- e. Draw the sketch of a Weir and explain the function of each part. What are the causes of Weir failures?