

SECTION-D

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

- Q.23 Explain submersible pump and vertical turbine pump. Describe their common troubles and remedies.

Q.24 Describes in brief open channels their types and layouts.

Q.25 Explain sprinkler irrigation system their adaptability limitations and types.

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3rd Sem./Branch : Agriculture

Subject : Farm Irrigation Engineering

Time : 3 Hrs.

M.M. : 60

SECTION-A

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

Q.5 Crop ratio is the ratio of irrigated?

- a) On rabi season to kharif season
- b) In kharif season to rabi season
- c) Under perennial crop to tota crop
- d) Under perennial crop to none perennial crop

Q.6 For a standing crop, the consumptive used of water is equal to depth of water.

- a) Transpired by the crop
- b) Evaporated by the crop
- c) Transpired and evaporated by the crop
- d) Used by the crop in transpired evaporated and also the quantity of water Evaporated from adjacent soil

SECTION-B

Note: Objective/ Completion type questions. All questions are compulsory. $(6 \times 1 = 6)$

Q.7 Free flooding is also known as _____ flooding.

Q.8 Water logging of a particular area due to the excessive application of water is one of the _____ of the irrigation.

Q.9 Evaporation which takes place through plants is called _____.

Q.10 If the area is irrigated less, duty will be _____

Q.11 Spillways are also known as _____ for the dam.

Q.12 Duty of well is _____ than that of canal.

SECTION-C

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

Q.13 Explain to various pumps used for irrigation,

Q.14 Describe types of water bearing formations.

Q.15 Explain the factors affecting duty and methods of improving duty.

Q.16 Explain subsurface system of water conveyance and their components.

Q.17 What are the environmental issues facing while using fertilizers and agro chemicals.

Q.18 Explain silent features of drip irrigation with their components.

Q.19 Give a review of history of irrigation in India.

Q.20 Explain measurement of water in pipes and open channels.

Q.21 Writes a short note determination of aquifer constant.

Q.22 What is irrigation? What is its necessity? What are the factors creating necessity of irrigation?