

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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Roll No.

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.1 The top of the capillary zone .
- a) lies below the water table at every point
 - b) Lies above the water table at every point
 - c) Coincides the water table at every point
 - d) None of these
- Q.2 Total depth of irrigation a crop is known as.
- a) Duty
 - b) Delta
 - c) Base
 - d) Evapotranspiration
- Q.3 Centrifugal force is involved in a generation of pressure in:
- a) Axial flow pump
 - b) Radial flow pump
 - c) Mixed flow pump
 - d) Reciprocating pump
- Q.4 The depth of rice root zone is.
- a) 50 CM
 - b) 60CM
 - c) 80 CM
 - d) 90 CM

- Q.5 Crop ratio is the ratio of irrigated?
- On rabi season to kharif season
 - In kharif season to rabi season
 - Under perennial crop to tota crop
 - Under perennial crop to none perennial crop
- Q.6 For a standing crop, the consumptive used of water is equal to depth of water.
- Transpired by the crop
 - Evaporated by the crop
 - Transpired and evaporated by the crop
 - 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. (6x1=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. (8x4=32)

- Q.13 Explain to various pumps used for irigation,
- 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?