

**3rd Sem / Branch : Agri. Engg.
Sub.: Farm Irrigation Engineering**

Time : 3Hrs.

M.M. : 60

SECTION-A

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

- Q.1 When two centrifugal pumps are operated in series, the discharge
a) Increase b) Decrease
c) Remain constant 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 Coefficient of storage is a property of
a) Confined aquifer b) Unconfined aquifer
c) Perched aquifer d) None of the above

Q.5 With respect to water use efficiency, the best method of irrigation means

- a) Infiltration b) Evaporation
- c) Evapotranspiration d) Vapour pressure

Q.6 Permeability is expressed in

- a) Meter per second
- b) Meter
- c) Meter² per second
- d) Volume percentage of pore space

SECTION-B

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

Q.7 Irrigation is supplementary to _____.

Q.8 INDIA has enormous resources _____ and water.

Q.9 In case gravity dams, spillways are located _____ the body of the dam.

Q.10 Drum gates are useful for _____ spans.

Q.11 Three types of open wells are 1_____, 2_____, and 3_____.

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 any two types of impellers.

Q.14 What is seasonal consumptive use & peak period consumptive use.

Q.15 What is infiltration and infiltration rate.

Q.16 Explain types of irrigation.

Q.17 What is delta and duty.

Q.18 Explain drip irrigation system.

Q.19 Classification of pumps.

Q.20 Explain submersible pump.

Q.21 Explain types of water bearing formation.

Q.22 Describe recharge of ground water.

SECTION-D

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

Q.23 Explain various types of pumps and its terminology.

Q.24 Describe subsurface system of water conveyance and their components.

Q.25 Explain drip irrigation system, their adaptability limitations and types.