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**4th Sem / Branch : Civil Engg./Brick Tech.,
constr.Mgmt, Highway Enggs,**

Subject:- Irrigation Engineering.

Time : 3Hrs. M.M. : 100

SECTION-A

Note: Multiple choice questions. All questions are compulsory (10x1=10)

Q.1 Run-off is measured in

- a) m^3/s
- b) m^3/min
- c) m^3/h
- d) none of these

Q.2 Irrigation canals are generally aligned along

- a) Contour line
- b) Water shed
- c) Straight line
- d) Valley line

Q.3 A land is said to be water logged when

- a) the air circulation is stopped in the root zone due to the rise in water table
- b) it is submerged in flood
- c) the soil pores within the depth of 40 cm are saturated
- d) all of the above

Q.4 Distributary head regulators are provided

- a) to control the supplies to the off-taking channel
- b) to control the slit entry in the off-taking canal
- c) to stop the supply when not needed in the off-taking canal
- d) All of the above

Q.5 A structure constructed in an irrigation canal for the purpose of wasting some of its water is known as a

- a) fall
- b) escape
- c) regulator
- d) none of these

Q.6 A canal outlet should

- a) be so designed that the farmer cannot temper with its functioning
- b) be simple so that it can be constructed or fabricated by local masons
- c) draw its fair share of slit carried by the distributing channel.
- d) all of the above

Q.7 The function of a scouring sluice is

- a) to control the slit entry into the canal
- b) to scour the slit deposited in the river bed above the approach channel
- c) to pass the low floods without dropping the shutters of the main weir
- d) all of the above

Q.8 A deflecting groyne in a river is

- a) inclined towards upstream
- b) perpendicular to bank
- c) inclined towards downstream
- d) none of the above

Q.9 When the drain is over the canal, the structure provided is known as

- a) aqueduct
- b) canal siphon
- c) Super-passage
- d) siphon aqueduct

- Q.10 The bed of a canal is lowered in case of
a) siphon aqueduct b) level crossing
c) canal siphon d) all of these

SECTION-B

Note: Objective type questions. All questions are compulsory. (10x1=10)

- Q.11 The process of artificially supplying water to soil for raising crops is termed as _____ (CO-1)
Q.12 first watering to crop is called _____ (CO-2)
Q.13 _____ is the amount of rainfall in a unit duration (CO-3)
Q.14 The sprinkler irrigation is also known as _____ (CO-4)
Q.15 The location of the center line of the canal on the ground is _____ (CO-5)
Q.16 _____ tubewell does not utilize strainers. (CO-6)
Q.17 A diversion dam is usually of _____ height (CO-7)
Q.18 The top width of divide wall is about _____ to _____ (CO-8)
Q.19 In case of super passage, canal flows _____ the drainage (CO-9)
Q.20 A canal escape is also known as _____ (CO-10)

SECTION-C

Note: Short answer type questions. Attempt any twelve questions out of fifteen questions. (12x5=60)

- Q.21 What is the scope of irrigation in india. (CO-1)
Q.22 What do you understand by rotation of crops? state the crop rotation pattern (CO-2)
Q.23 Explain factors affecting rainfall in india. (CO-3)
Q.24 Describe the condition favouring sprinkler irrigation

(CO-4)

- Q.25 What are canal breaches? List the various reasons which loads to a canal breach (CO-5)
Q.26 What are the advantage and disadvantage of open well and tubewell (CO-6)
Q.27 What are the criteria for safe design of earth dam ? (CO-7)
Q.28 What is the difference between weir and barrage ? (CO-8)
Q.29 Why are the crops drainage works necessary what is their importance ? (CO-9)
Q.30 Write a short note on canal escape (CO-10)
Q.31 What are Groynes? Gives the purpose's of Groynes also (CO-11)
Q.32 What are remedial measure are adopted for the prevention of water logging ? (CO-12)
Q.33 Differentiate between confined and unconfined aquifer (CO-6)
Q.34 What are the cause of Meandering (CO-11)
Q.35 How will you decide the suitability of a particular type of canal living (CO-5)

SECTION-D

Note: Long answer type questions. Attempt any two questions out of three questions. (2x10=20)

- Q.36 What are the factors affecting duty of water. Explain in detail (CO-2)
Q.37 What are the differentiate type of canal living ? Explain (CO-5)
Q.38 Discuss the type of falls with neat sketches (CO-10)