

No. of Printed Pages : 4 180743/170743/120743
Roll No.

**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 roof 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

(1) 180743/170743/120743

- 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 fare 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 syphon
c) Super-passage d) syphon aqueduct

(2) 180743/170743/120743

- Q.10 The bed of a canal is lowered in case of
 a) syphon aqueduct b) level crossing
 c) canal syphon 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

(3) 180743/170743/120743

- (CO-4)
 Q.25 What are canal breaches? List the various reasons which leads 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 (CO6)
 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)

(4820)

(4) 180743/170743/120743