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**4th Sem./ Civil Engg / Brick Tech./Const. Mgmt.,
Highway Engg.
Subject : Irrigation Engg.**

Time : 3 Hrs.

M.M. : 100

SECTION-A

Note: Multiple type Questions. All Questions are compulsory. (10x1=10)

- Q.1 The total depth of water required by a crop during the entire period the crop is in the field is known as
a) Delta b) Duty
c) Base period d) Crop period
- Q.2 For closed growing crops (such as wheat) the method of irrigation used is
a) Free flooding b) Border flooding
c) Check flooding d) Basin flooding
- Q.3 A canal aligned nearly parallel to contours of a country, is known as
a) Side slope canal b) Contour canal
c) Water shed canal d) Ridge canal
- Q.4 The free board in a channel is governed by the
a) Size of the canal
b) Location of the canal
c) Water surface fluctuations
d) All of these

- Q.5 Water logging is caused due to
a) Inadequate drainage facilities
b) Over irrigation
c) Presence of impermeable strata
d) All of these
- Q.6 A fall which maintains the depth is a
a) trapezoidal notch fall b) Rectangular notch fall
c) Low weir fall d) All of these
- Q.7 An outlet in which the discharge depends upon the difference in level between the water level in distributing channel and the water course, is known as.
a) Non-modular outlet b) Semi-modular outlet
c) Modular outlet d) Rigid module
- Q.8 Rivers on alluvial plains may be
a) Meandering type b) Aggrading type
c) Degrading type d) All of these
- Q.9 When the bed level of the canal is higher than the highest flood level (H.F.L.) of the drainage then the cross drainage work is said to be
a) aqueduct b) super passage
c) canal siphon d) siphon aqueduct
- Q.10 The borrow pits should, preferably, be taken from
a) The field on the right side of canal
b) The field on the left side of canal
c) The central half width of the section of the canal
d) None of these

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Section-B

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

- Q.11 India is divided into _____ river basin for the assessment of the available water sources. (CO1)
- Q.12 Delta is equal to _____. (CO2)
- Q.13 Run-off is measured in _____. (CO3)
- Q.14 _____ is that process of Irrigation in which water flows from its source to the gravity. (CO4)
- Q.15 Brick lining is also known as _____ lining. (CO5)
- Q.16 _____ method is used for drilling deep wells through consolidated rock materials. (CO6)
- Q.17 The crest of emergency spillway is fixed at _____ in the reservoir. (CO7)
- Q.18 _____ is a device by which silt is excluded from water entering the canal. (CO8)
- Q.19 Water logging depends upon the _____ of soil. (CO12)
- Q.20 _____ enables effective regulation of the entire canal system. (CO10)

Section-C

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

- Q.21 Write short note on history of development of irrigation in India. (CO1)
- Q.22 Establish the relation between duty, delta and base period. (CO2)

- Q.23 Describe the importance of hydrology. (CO3)
- Q.24 What is drip Irrigation? Give its advantages. (CO4)
- Q.25 Give advantages and disadvantages of canal living. (CO5)
- Q.26 Give comparison of Tubewell and canal Irrigation. (CO6)
- Q.27 What is a gravity dam? What are its advantages and disadvantages? Explain. (CO7)
- Q.28 What are canal head works? and its objectives? (CO8)
- Q.29 What is level crossing? Describe it with a neat sketch. (CO9)
- Q.30 Write the requirements of a good canal outlet? (CO10)
- Q.31 What do you understand by cut-off and its advantages? Explain. (CO11)
- Q.32 Describe briefly the methods of sub surface drainage of Irrigation land. (CO17)
- Q.33 What are the causes of water logging? Describe. (CO12)
- Q.34 What do you mean by Cross-regulator? Explain. (CO10)
- Q.35 Discuss in brief the ill effects of Irrigation. (CO1)

Section-D

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

- Q.36 What do you understand by run-off and catchment area? Explain the factors affecting run-off? (CO3)
- Q.37 Explain in detail, various methods used for boring the tube wells. (CO6)
- Q.38 Describe the types of spillways with diagrams. (CO7)