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4th Semi, Branch : CIVIL
Subject : Irrigation Engg.

Time : 3 Hrs. M.M. : 100

SECTION-A

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

Q.1 Evaporation which takes place through plants is called (CO-3)

- a) Runoff
- b) Rainfall
- c) Transpiration
- d) Penetration

Q.2 First watering to crop is called _____. (CO-2)

- a) Palco
- b) Outlet factor
- c) Melon
- d) G.C.A.

Q.3 Water logging generally occurs because of _____. (CO-12)

- a) Under Irrigation
- b) Over Irrigation
- c) None of these
- d) Both A & B

Q.4 When a canal is carried over a natural drainage the structure is called _____. (CO-9)

- a) Super Passage
- b) Level crossing
- c) Aqueduct
- d) Syphon

Q.5 _____ are the permeable formation of the underground soils. (CO-6)

- a) Aquaduct
- b) Tubewell
- c) Aquifuge
- d) Aquifers

Q.6 Quantity of silt is more in _____ layers of flow of canal water. (CO-5)

- a) Upper
- b) Bottom
- c) Middle
- d) Any where

Q.7 A structure constructed at the head of canal to regulate the supply of river water into it is called _____. (CO-8)

- a) Head regulator
- b) Barrage
- c) Weir
- d) Bridge

Q.8 The banks constructed for confining and guiding the flow of river in a reasonable water way are called _____. (CO-11)

- a) Guide Bank
- b) Weir
- c) Spurs
- d) Cut off

Q.9 The process of artificially supplying water to soil for raising crops is _____. (CO-1)

- a) Rainfall
- b) Agriculture
- c) Irrigation
- d) Water logging

Q.10 The process of irrigation in which water flows its source to the field by gravity is _____. (CO-7)

- a) Lift irrigation
- b) Flow irrigation
- c) Well irrigation
- d) Drip Irrigation

SECTION-B

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

- Q.11 In case of super passage, canal flows _____ the drainage. (CO-9)
- Q.12 Diversion head works control the entry of _____ particles into the canal. (CO-8)
- Q.13 A _____ is a hydraulic structure constructed across a river to store water on its upstream. (CO-7)
- Q.14 A _____ is a long pipe sunk into the ground for interception one or more water bearing strata. (CO-6)
- Q.15 Excess earth excavated from canal section is disposed off in _____. (CO-5)
- Q.16 Irrigation in which water is not available for the months of the year is called _____. (CO-4)
- Q.17 A _____ is a graph showing the variation of discharge with time. (CO-3)
- Q.18 Name two types of Automatic rain gauges. (CO-2)
- Q.19 _____ enables effective regulation of the entire canal system. (CO-10)
- Q.20 Water logging takes place due to _____ in ground water table. (CO-12)

SECTION-C

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

- Q.21 What are the functions of river training works? (CO-11)
- Q.22 Write short note on Aquifer. (CO-6)
- Q.23 What are the factors affecting canal alignment? (CO-5)

- Q.24 Give points of distinction between sprinkler irrigation and drip irrigation. (CO-4)
- Q.25 What do you understand by hydrological cycle. (CO-3)
- Q.26 What is meant by duty of water? State the factors that affect duty. (CO-2)
- Q.27 Describe the benefits of Irrigation. (CO-1)
- Q.28 Discuss in brief the causes of failure of earth dams. (CO-7)
- Q.29 Write short note on selection of site for a canal. (CO-8)
- Q.30 What are the functions of canal head regulator? (CO-10)
- Q.31 What are the effects of water logging? (CO-12)
- Q.32 Why are the cross drainage works necessary? What is their importance? (CO-9)
- Q.33 What do you mean by Canal headworks? (CO-8)
- Q.34 Establish a relation between duty, delta and base period. (CO-2)
- Q.35 Mention various types of rain gauges. (CO-3)

SECTION-D

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

- Q.36 Explain the effect of water logging. (CO-12)
- Q.37 Explain types of Earth dams. (CO-7)
- Q.38 What are the different types of canal lining? Explain. (CO-5)