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Roll No.

**4th Sem / Branch : Civil, Brick Tech,
Constr. Mgmt, Highway Engg.
Subject:- Irrigation Engineering**

Time : 3Hrs. M.M. : 100

SECTION-A

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

- Q.1 Duty exclusive of rainfall is
a) Low c) High
b) Moderate d) None of the above
- Q.2 Delta is equal to
a) 864B/D c) 864D/B
b) D/864B d) None of the above
- Q.3 Evaporation which takes place through plants is called
a) Transpiration c) Hydrology
b) Rainfall d) None of the above
- Q.4 The area of the shaped catchment is _____ than a
ferm shaped catchment
a) More c) Less
b) Moderate d) None of them
- Q.5 In barrage, there is more silting
a) True b) False

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- Q.6 Diversion hadworks control the entery of _____
particles into the canal.
a) Silt c) Clay
b) Sand d) Pebbles
- Q.7 The regulators are aligned at _____ to the weir.
a) 90 Degree c) 45 Degree
b) 60 Degree d) 30 Degree
- Q.8 Acanal escape is a sort of _____
a) safety valve b) Head regulator
c) Sluice valve d) None of these
- Q.9 Normal pattern changes its course from time to time
a) True b) False
- Q.10 Which of the following is a guide bank
a) Divergent guide bank
b) Parallel guide bank
c) Both a & b
d) Spurs

SECTION-B

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

- Q.11 Base period is expressed in days. (True/False)
- Q.12 In drip irrigation, water requirement is more. (True/False)
- Q.13 Canal headwork are also known as diversion headwork. (True/False)

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- Q.14 A super passage is the reverse of aqueduct. (True/False)
- Q.15 There is no difference between canal syphon and syphon super passage. (True/False)
- Q.16 In case of super passage, canal flows ____ the drainage.
- Q.17 Rapid falls were also used for timber traffic. (True/False)
- Q.18 Cross regulator is usually combined with a road bridge. (True/False)
- Q.19 Embakements are also called _____.
- Q.20 The size of seepage drain is _____.

SECTION-C

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

- Q.21 Describe the benefits of irrigation.
- Q.22 Find the delta for a crop when its duty is 432hec/cumec on the field, the base period of this crop is 60 days.
- Q.23 What is surface irrigation? Explain any one method.
- Q.24 Write short note on lift irrigation.
- Q.25 Describe the advantages of well irrigation.
- Q.26 Define:-
a) confined aquifer b) unconfined aquifer
- Q.27 What is gravity dam? Write any two advantages.

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- Q.28 What is spillway? Explain.
- Q.29 What is canal headworks? Also classify the types of canal headwork.
- Q.30 Differentiate between syphon and super passage.
- Q.31 Write the function of canal head regulator.
- Q.32 What is canal fall? Explain. Give its necessity.
- Q.33 What do you understand by river training works? Explain.
- Q.34 Write the effects of water logging.
- Q.35 Define:-
a) Kharif crops b) Rabi crops

SECTION-D

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

- Q.36 Give advantages and disadvantages of canal lining.
- Q.37 Describe the most widely used type of tubewell with a neat sketch.
- Q.38 What is water logging? Explain its causes, effects and preventive measures.

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