



Reg. No. :

--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

Question Paper Code : 40824

B.E./B.Tech. DEGREE EXAMINATION, APRIL/MAY 2018

Seventh Semester

Civil Engineering

CE 6703 – WATER RESOURCES AND IRRIGATION ENGINEERING

(Regulations 2013)

Time : Three Hours

Maximum : 100 Marks

Answer ALL questions.

PART – A

(10×2=20 Marks)

1. Define water resources survey.
2. Define maximum probable flood.
3. List out the various factor affecting consumptive use of water.
4. Write down the various stages in development of river basin.
5. Find the delta for a crop, if the duty for a base period of 110 days is 1400 hectares/cumec.
6. List out the various types of cropping seasons in India.
7. Write the advantages of gravity dam.
8. Write any two main functions of canal head regulators.
9. List out the different forms of sprinkler irrigation system.
10. Define irrigation scheduling.

PART – B

(5×16=80 Marks)

11. a) Briefly discuss about the estimation of water requirement for drinking and irrigation purpose.

(OR)

- b) Discuss in detail about various types of reservoir.



12. a) i) Write the salient features of national water policy. (8)
- ii) Write short notes on :
- 1) Sodium hazard. (4)
- 2) Salinity hazard. (4)
- (OR)
- b) Define water budgets and explain its types and importances.
13. a) Discuss in detail about merits and demerits of irrigation. (OR)
- b) Define irrigation efficiency and explain their various types in detail.
14. a) Briefly discuss about the various component of diversion head works. (OR)
- b) Explain in detail about the various types of cross drainage works with neat sketch.
15. a) Briefly discuss about the various surface irrigation methods. (OR)
- b) Discuss about the various types of tube wells with neat sketch.