

BE-sem-VI - civil - old

TE

14/12/15

**QP Code : 2221**

(Three Hours)

100 Marks

- N.B. (i) Question No. 1 is compulsory  
(ii) Attempt any **THREE** Questions out of **SIX** Questions  
(iii) Illustrate with figures whenever necessary  
(iv) Assume suitable data if necessary and state it clearly

1 Explain any FIVE

[20]

- (a) Irrigation
- (b) Crop seasons in India
- (c) Duty and Delta
- (d) General layout of hydro-electric plant
- (e) Factors affecting runoff
- (f) Forces acting on gravity dam
- (g) Alignment of canals
- (h) Cross drainage works

- 2(a) Explain in detail factors affecting runoff [10]
- 2(b) Write a note on different types of irrigation [10]
- 3(a) What are different modes of failure of Gravity Dam [10]
- 3(b) List different types of spillway and explain in detail any one type [10]
- 4(a) What are factors affecting the site selection of reservoir [10]
- 4(b) Explain alignment of canal & canal losses [10]
- 5(a) Write the method to find optimum number of raingauge stations [10]
- 5(b) Define UH and IUH, write assumptions of UH [10]
- 6(a) Explain S- hydrograph method [10]
- 6(b) Explain advantages of irrigation [10]
- 7(a) Write a note on occurrence of ground water, methods of groundwater exploration [10]
- 7(b) List different types of Arch Dam and Buttress Dam [10]

**QP-Con. 11407-15.**

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