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**CE-8047****B.E. VIII Semester**

Examination, June 2017

**Advance Water Resources Engineering****(Elective - II)****Time : Three Hours****Maximum Marks : 70**

- Note:** i) Attempt any five questions.  
ii) All questions carry equal marks.

1. a) What do you mean by rain gauge? Explain any non recording type rain gauge.  
b) Explain in detail depth area duration analysis.
2. a) Explain briefly Channel Routing Muskingum Method.  
b) Describe the flood routing through reservoir in detail.
3. a) What is importance of linear programming in system analysis of water resources.  
b) Explain Reservoir operation.
4. a) How dynamic programming is used in Resource allocation.  
b) Explain the use of D.P in Reservoir.
5. a) Describe briefly Project Optimality Analysis.  
b) Explain networks methods utility in decision making.
6. a) How simplex method is carried out in System Analysis.  
b) Explain linear decision rule in system analysis.

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7. a) Explain flood management techniques in detail.  
b) Describe the concept of correlogram.
8. Write short notes (any three) :  
a) Recording type rain gauge  
b) Risk analysis  
c) Updating of Network  
d) Probable maximum Flood  
e) Hydrology

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