

Roll No.: 15822055

Total No. of Questions : 5]

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**EG-314****B.E. VII Semester (CGPA) Civil Engg.  
Examination 2018****IRRIGATION ENGINEERING****Paper - CE-705*****Time Allowed : Three Hours]******[Maximum Marks : 60***

- Note :** i) All questions are compulsory.  
ii) All questions carry equal marks.  
iii) Assume suitable data, if necessary.

**Unit - I****Q.1** Explain the following (any four)

- i) Straight glacis falls
- ii) Khosla's method
- iii) Diversion head work
- iv) Barrage
- v) Bligh's method



(2)

UITians

OR

Explain the term Bligh's creep theory for seepage flow.

### Unit - II

- Q.2
- a) Describe with neat sketch 'Syphon Aqueduct'.
  - b) Describe the various types of cross drainage work.

OR

Explain the following (Any two)

- i) Canal regulation work
- ii) Distributor head regulators
- iii) Level crossing

### Unit - III

- Q.3
- a) Describe various causes of failure of earth dams.
  - b) Discuss briefly the different types of reservoirs the purpose served by each type.

OR



(3)

UITians

- a) Write short note on diaphragm earth dams.
- b) Describe 'Reservoir sedimentation and its control'.

### Unit - IV

- Q.4
- a) What are the various forces acting on a gravity dams?
  - b) Differentiate between a low gravity and high gravity dam.

OR

- a) What is meant by the elementary profile of a gravity dam and how is it reduced?
- b) What are the advantages of a gravity dam over the earth dam?

### Unit - V

- Q.5
- a) Describe ogee spillway with its design procedure.
  - b) Describe the various methods used for energy dissipation below spillways.

OR



Write short notes on (Any four)

- i) Draft tube
- ii) Compare thermal and hydro power
- iii) Syphon spillway
- iv) Surge tank
- v) Compare impulse reaction turbine.

