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Total No. of Questions :8]

[Total No. of Printed Pages :2

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Roll No

MVCT/MVCP-302(A) M.E./M.Tech., III Semester

Examination, June 2017

Advanced Dam Design and Construction

(Elective-II)

Time: Three Hours

Maximum Marks: 70

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Note: i) Attempt any five questions.

- ii) All questions carry equal marks.
- a) List down preliminary investigations and surveys for selection of site of gravity dam.
 - b) Describe method of zoning for evolution of profile of a gravity dam.
- 2. a) Write design steps for "Ogee spillway section".
 - Explain the procedure of design of spillway crest gates and sluice gates.
- a) Describe the procedure of stability analysis of high gravity dam.
 - b) Draw the sketch and write the steps of design of hydraulic siphon.

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- 4. a) Give the classification of Arch dams. How different forces are stabilised in Arch dam?
 - b) Describe following dams
 - i) Inclined arch dams
 - ii) Dome-dams

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 Elaborate the design criteria of earthen dams against over toppling.

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Explain theory of flownets for homogeneous & zoned embankments.

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- 6. a) Describe method of analysis of stability of slopes by slip circle method?
 - b) How "Photoelasticity" is useful in the design of dams?
- a) Explain methods of river diversion for construction of dams.
 - How "Electrical Analogy method" is useful in the design of dams.
- 8. Write short notes on any FOUR of the followings:
 - a) Energy Dissipation arrangements
 - b) Chute Spillway

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- c) Hoisting machines
- d) Seepage control in dams
- e) Rockfill dams
- f) Contraction joints in gravity dams

1.47

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