

15002

Roll No. _____

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15002

M. Tech. I - Sem. (Main) Exam., Dec. - 2018

Geotechnical Engineering

1MGE2 Design of Embankment Dams

Time: 3 Hours

Maximum Marks: 100

Min. Passing Marks: 33

Instructions to Candidates:

*Attempt any **five** questions. Marks of questions are indicated against each question. Draw neat and comprehensive sketches wherever necessary to clearly illustrate your answer. Assume missing data suitable if any and specify the same. Use of following supporting material is permitted during examination. (Mentioned in form No. 205)*

1. NIL 2. NIL

- Q.1 (A) Enumerate how Dam site is located? [8]
(B) State all the components of a dam with their function. Draw a neat diagram. [12]
- Q.2 (A) Briefly describe the types of Embankment Dams? [10]
(B) How Impervious core helps in seepage control? [10]
- Q.3 (A) Discuss Laplacian Equation and its significance. Also briefly describe flow net. [12]
(B) State the causes of failure of a Dam. [8]
- Q.4 (A) Enumerate & describe all the components of a Dam with a diagram. [10]
(B) Discuss the suitability criteria of material for Embankment. [10]
- Q.5 (A) Discuss various treatments of foundation. [10]
(B) Write design steps of Relief Well. [10]

Q.6 (A) Define the term Compaction. Explain the methods of compactions. [10]

(B) Describe Drainage of Embankment. [10]

Q.7 (A) Discuss Construction methods of a typical Rockfill Dam. [10]

(B) Describe the types of membranes in Rockfill Dam. [10]

Q.8 Write short note: [4×5=20]

(A) Criteria for safe design of dam

(B) Free Board

(C) Rockfill Dam

(D) Slope protection

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