

Roll No.....

CE-102**M. Tech.(CTM)–I Sem. (Reg./Ex.)****Examination, March.-2021****Ad. Geotechnical Engg.****Time: Three Hours****Maximum Marks: 70****Note:** Attempt any five questions [each question carries equal marks]

Q.5 Discuss the following-

- (a) Soil sampling.
- (b) Settlement analysis.

Q.6 Discuss the following-

- (a) Cofferdam.
- (b) CNS layer technique.

Q.7 (a) Discuss in detail characteristics and treatment of expansive soil.

- (b) List the various Forces acting on a well foundation. also describe the significance of each forces.

Q.8 List the various Forces acting on a well foundation

Also describe the significance of each forces.

Q.1 Explain the seismic refraction method for sketching the general ground profile at proposed bridge side.

Q.2 (a) What is the new mark's influence chart? Explain its preparation and uses.

(b) Describe various type of caisson's with sketch

Q.3 (a) Discuss and detail stability analysis method of well foundation which are heavy enough to rotate about the base.

(b) Write short note on (any two)

(a) Cohesive soils

(b) Soil stabilization technique

Q.4 (a) Discuss the uses of single degree freedom system in analysis of machine foundation.

(b) Describe various type of construction technique in expansive soil.