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## CE-7004 (1) (CBGS)

## B.E. VII Semester

Examination, November 2019

## Choice Based Grading System (CBGS) Pavement Design

Time: Three Hours

Maximum Marks: 70

Note: i) Attempt any five questions.

- ii) Åll questions carry equal marks.
- iii) Assume missing data suitably if required.
- a) Calculate ESWL of a dual wheel assembly carrying 2044 kg each for trial pavement thickness values of 150, 200 and 250 mm centre to centre spacing between the two tyres = 270 mm and clear gap between the walls of the tyres = 110 mm.
  - Explain various factors affecting the design of flexible pavement.
- a) Discuss different component of a cross-section of flexible pavement with neat diagram.
  - b) Write a short note on the stress distribution through various layer in flexible pavement.
- Explain the plate bearing test procedure for calculation of the modulus of subgrade reaction (K) and how are the correction for the subgrade modulus. K made for a different plate size and for accounting for worst moisture conditions.

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