

Mid Term Assignment/Quiz (Summer Semester 2020)

Note: Attempt all questions. Answer of the given questions must be uploaded within 04 hours after uploading of question paper. No answer sheet will be considered after given time period. Assume any missing data.

Q No 1: CLO-01 (03+04+03)

- A. What do you understand by the terms Capacity and Demand on structures?
- B. Briefly describe Design methods.
- C. Write short note on the effect of strength reduction factor on flexural strength.

Q No 2: CLO-02 (20)

Design slab and beam of a 90' * 60' Hall. The height of hall is 15ft. Concrete compressive strength (f'_c) = 3 ksi and steel yield strength is 40 ksi. Take 2-inch mud layer and 2-inch tile layer above slab. Take LL = 40 psf.

Also design column and footing for the said problem and at the end of each structural member design, draw proper sketch.

“Good Luck”
