Assignment 7

1. According to DHI-2000, the maximum diameter of longitudinal bar in a column is:
   a) 30mm
   b) 28mm
   c) 25mm
   d) 22mm

2. According to DHI-2000, for columns in which k = 0.1, for both high and medium yield strength, the maximum size of longitudinal reinforcement in the column section is:
   a) 30mm
   b) 28mm
   c) 25mm
   d) 22mm

3. According to DHI-2000, the minimum cross-section of columns is:
   a) 150mm x 150mm
   b) 200mm x 200mm
   c) 250mm x 250mm
   d) 300mm x 300mm

4. A short column of size 450mm x 450mm is subjected to a service axial load of 150kN. The diameter of longitudinal bar is 20mm. According to DHI-2000, the minimum distance of the bar can be provided to the column 6. According to DHI-2000, the maximum distance of the bar can be provided to the column.
   a) 120mm
   b) 150mm
   c) 180mm
   d) 210mm

5. According to DHI-2000, a compression member is called a column or a strut when the ratio of effective length to least fibrous diameter is:
   a) 5
   b) 6
   c) 7
   d) 8

6. A column cross-section is considered to be short if the ratio of length to least fibrous diameter is:
   a) 0
   b) 1
   c) 2
   d) 3

7. A square column with 5.5-m base length is subjected to a concentrated load of 500kN. It is required to check the column for a uniform grade of 415. The diameter of the column section is 300mm. According to DHI-2000, the minimum size of longitudinal reinforcement in the column section is:
   a) 30mm
   b) 28mm
   c) 25mm
   d) 22mm

8. A square column with 5.5-m base length is subjected to a concentrated load of 500kN. It is required to check the column for a uniform grade of 415. The diameter of the column section is 300mm. According to DHI-2000, the maximum size of longitudinal reinforcement in the column section is:
   a) 30mm
   b) 28mm
   c) 25mm
   d) 22mm

9. A square column with 5.5-m base length is subjected to a concentrated load of 500kN. It is required to check the column for a uniform grade of 415. The diameter of the column section is 300mm. According to DHI-2000, the minimum size of longitudinal reinforcement in the column section is:
   a) 30mm
   b) 28mm
   c) 25mm
   d) 22mm

10. A square column with 5.5-m base length is subjected to a concentrated load of 500kN. It is required to check the column for a uniform grade of 415. The diameter of the column section is 300mm. According to DHI-2000, the maximum size of longitudinal reinforcement in the column section is:
   a) 30mm
   b) 28mm
   c) 25mm
   d) 22mm