Menoufiya University Faculty of Engineering Shebin El-Kom Second Semester Examination Academic Year: 2017-2018

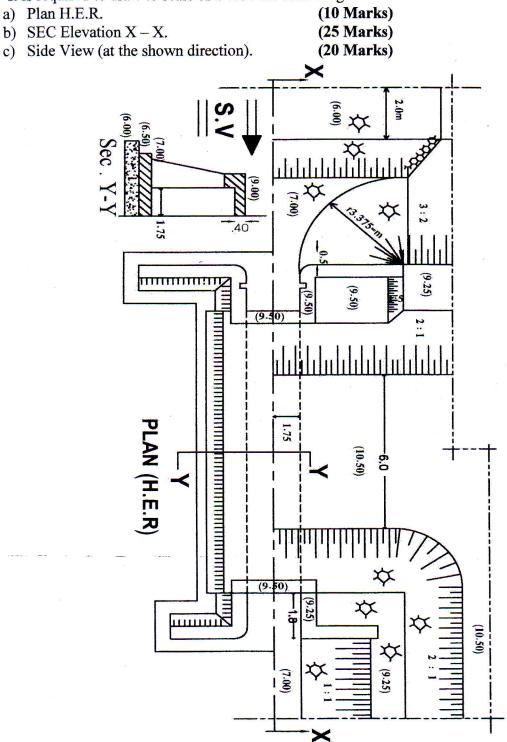


Department: Civil Eng. Year: 1<sup>st</sup> Civil Date 23/5/2018 Subject/C<del>ode</del>: CTVIL ENGINEERING DRAWING CVE101 Time Allowed: 4 hours

Remarks: No. of pages: 2No. of questions: 3Allowed Tables and Charts: (--)Answer all the following Questions [120 Marks]Any missing data can be reasonably assumed

## Question (1) [60 Marks]

- 1. Give clear description of the following structure. (5 Marks)
- 2. It is required to draw to scale of 1 :100 the following:



## Question (2) [30 Marks]

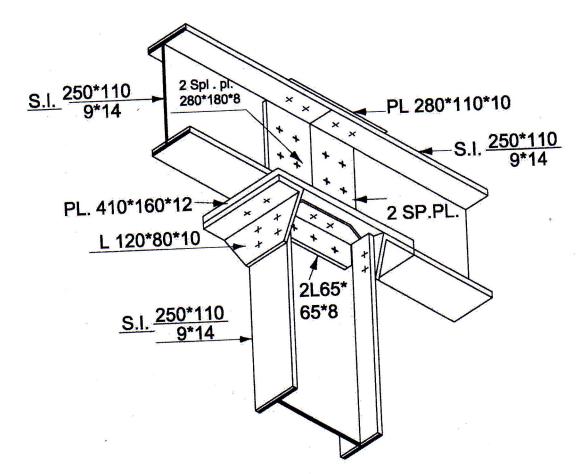
- 1. It is required to draw a longitudinal section and a cross section of circular column, which has radius of 30 cm with reinforcement 18 bars with 16 mm diameter with 6 stirrups with diameter 8 mm. (5 Marks)
- 2. It is required to draw a longitudinal and cross sections of unequal spans continuous beam with three spans equal 6, 5, and 7 m. the cross sections are 25\*60 with reinforcement 6 straight bars with 16 mm diameter and 4 bent bars with 18 mm diameter and 4 upper bars (stirrup hunger) with 12 mm diameter the slab thickness 14 cm. (15 Marks)
- 3. It is required to draw a plan and a cross section of a footing which has section 1.7\*2.30\*0.70 with reinforcement 7 bars with 16 mm diameter in one meter at the main direction and 6 bars with 12 mm diameter in one meter in the other direction. (10 Marks)

## Augetian (2) [20 Manleal

Question (3) [30 Marks]

For the following figure it is required to draw :-

- (10 Marks) 1. Plan
- (10 Marks) 2. ELE
- (10 Marks) 3. S.V



Question	1.1	1.2.a,b,c	2.1,2,3	3.1,2,3
no. ILO's	a.11.12	b.4.1, b.14.1 and c.15.1	b.4.2	b.4.2
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