

Department: Civil Eng. Year: Diploma Cable stayed bridges - CVE707 Time Allowed: 3 hours Date: 4 Jan. 2016

Sketches should be neat, detailed are to be fully dimensioned. Any missing data are to be assumed reasonably Answer all the following questions

[Total 100 Marks]

- 1. Discuss briefly the different types of the deck-stayed bridges. [20 marks]
- 2. Show with sketches different types of towers used in cable stayed-bridges. [20 marks]
- 3. Make a comparison between suspension and Cable-Stayed-Bridges [20 marks]
- 4. Show briefly different positions of the cable in Cable-Stayed bridges [20 marks]
- 5. Discuss the different loads that should be considered while the cable-stayed bridges.

[20 marks]

****** Good luck ***** Dr. Ahmed Elshafey