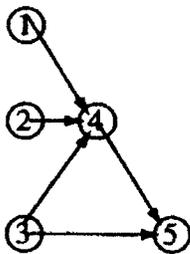


※ 考生請注意：本試題不可使用計算機。請於答案卷(卡)作答，於本試題紙上作答者，不予計分。

1. What is the focus and main goals of human factors and ergonomics (HFE)? How can HFE contribute to the various stages in the lifecycle of products from the viewpoint of product lifecycle management (PLM). (12%)
2. Draw the structure of the Toyota Production System envisioned by Taiichi Ohno and concisely describe the main concept of associated elements. (15%)
3. Provide the formal definition of "standard time" in time study and then briefly contrast two methods that can be used to estimate the standard time of a task. (8%)
4. Given the following operations and unit times in minutes (#1 = 1.5, #2 = 3, #3 = 1, #4 = 2, #5 = 4), please balance the production line with the goal of producing 30 units/hour.(15%)



5. 試簡述供應鏈管理系統之管理問題及解決辦法。(18%)
6. 試簡述 ERP 之模組類別及各類別模組間之關係。(17%)
7. 試解釋下列各名詞：(15%，每小題 3 分)

- (1)PDM
- (2)Mass Customization
- (3)JIT
- (4)EDI
- (5)EPQ