

國立中央大學98學年度碩士班考試入學試題卷

所別：營建管理研究所碩士班 不分組

科目：營建工程與管理

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\*請在試卷答案卷(卡)內作答

一、名詞解釋 (每題5分)

1. WBS
2. PCM
3. BOQ
4. BOO
5. CPM
6. ADR

二、分析題

1. Quality is a paramount issue in construction management. However, "quality assurance" and "quality control" are often used interchangeably. Many construction people believe these two terms are, by definition, the same. Both terms cover the same set of concepts and techniques. Do you agree or not agree? Please provide brief reasoning. (15 points)
2. The "Lowest-bid" competitions in public works construction have been blamed as one of the main reasons for failed projects. Please name three shortcomings of this tendering procedure. (10 points) In the past, a number of alternative tendering methods have been proposed (as well as implemented), in order to avoid or to correct the shortcomings of the "Lowest-bid" tendering method. Please name and briefly explain two of the alternative tendering methods. (10 points)
3. Schedule representation can be in various forms resulting from applying different representation methods such as bar chart, arrow diagram, precedence diagram, and time-scaled logic diagram. Please briefly describe advantages and disadvantages of these methods. (15 points)

參考用

注意：背面有試題

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三、計算題

1. Activities of a specific project are listed in the table below. The project has an indirect cost of \$10 per day. What is the optimal project duration? (15 points)  
What is the minimum project duration? (5 points)

Activity	Normal Duration (in day)	Crash Duration (in day)	Normal Cost (in \$)	Crash Cost (in \$)	Followers
A	12	9	70	100	C、D
B	10	8	40	50	C、D、E
C	8	6	50	60	-
D	10	7	50	65	-
E	7	4	30	60	-

參考用

注意：背面有試題