題號:220 國立臺灣大學96學年度碩士班招生考試試題

科目:營建管理

題號:220

共 / 頁之第全頁

- 一,解釋名詞:(20%)
 - (1) 統包
 - (2) 最有利標
 - (3) PCM
 - (4) BOT, BT, OT, ROT
- 一. 國內公共工程常見的履約爭議案件有哪些類別? 試簡要說明其產生原因, 並比較爭議處理, 仲裁, 訴訟三種解決工程爭議方式的優缺點。(20%)
- 三. 機關委託技術服務評選及計費辦法中的計費方式中,主要有服務成本加公費法及建造成本百分比法,請說明並比較此二種方法的優缺點。(20%)

四. Given project up-to-date status as follows:

Expenditure Item Up-To-Date		Original Estimated Cost	Original Estimated Quantity	Up-To-Date Quantity actually Completed	Actual Manhours <u>Up-To-Date</u>	<u>Unit</u>
1 2	9,800.00	12,888	460.25	86.91	24	CY
	450.00	598	59,800.00	81.19	300	LF

Determine the followings (15%)

- 1. Calculate the cost Amount, Quantity, and Unit Cost for each item in terms of:
 - A. Up-to-Date
- B. Forecast at Completion.
- 2. Determine productivity for each item (up-to-date).
- 3. What is your evaluation of the project cost status at completion? Would the project have any cost overrun and schedule delayed based on up-to-date project status
- 4. Show all your calculations
- 五. The project has the planned activity data and relationships among the activities as follows:

Activity	Duration(month)	Immediate Successors	
A 6	(2) 4	B 6	
В	4	C	
С	9191919	690	
D	4	E,H	
E	3	F	
F	4	G	
G	3	0	
Н	3	G,N	
L	2	М	
M	3	G,N	
N	8	0	
0	0	-	

You are asked to provide (25%)

- 1. A schedule flow chart using
 - Precedence Diagram Method (PDM)
- 2. How many months will this project be completed?
- 3. Which activities are critical activities?
- 4. What are the early start (ES), late start (LS), Early Finish (EF), and late Finish (LF) for activities C, F, G, and M.
- 5. If the client insists to complete the project in a year, regardless what you plan previously, what will be the ES, LF, and Floats of the activities C, G, H, and M.
- 6. If it costs \$1,000 every day for every activity,
 - A. What will be the total cost for this project when it finishes as planned?
 - B. At the end of the 6th month, how much will the project cost be, if the project manage decides to start each activity as late as possible

試題隨卷繳回