

UNIVERSITY OF BOLTON
OFF CAMPUS DIVISION
STUDY WORLD – SRI LANKA
BENG (HONS) CIVIL ENGINEERING
SEMESTER 1 EXAMINATION 2018/2019
CONSTRUCTION MANAGEMENT
MODULE NO: CIE6007

Date: 19th January 2019

Time: 9.00am – 12.00 Noon

INSTRUCTIONS TO CANDIDATES:

This paper contains SIX questions.

Answer ANY FOUR questions.

All questions carry equal marks.

Marks for parts of questions are shown in brackets.

This examination paper carries a total of 100 marks.

All working must be shown. A numerical solution to a question obtained by programming an electronic calculator will not be accepted.

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1. Evaluate a range of construction management issues in the literature in 2017 and the first part of 2018, that are likely to be predictors of performance in remaining parts of 2018 and beyond.

(25 marks)

2. Mindful that the UK construction industry is often working to restricted time and cost budgets, critically appraise the extent to which it is able to apply best practice systems in health and safety management.

(25 marks)

3. "Cost control systems are an essential part of construction management throughout supply chains". Discuss.

(25 marks)

4. Evaluate the effectiveness of the NEC3 family of contracts in dealing with compensation events.

(25 marks)

5. Procurement systems and the use of Building Information Modelling are identified in many leading authoritative construction reports, as a key tool in the drive for lower cost and lower carbon emissions. Discuss to what extent the way work is procured, may help to achieve these goals.

(25 marks)

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6.

a. The table below details the forecast and actual cash flow performance levels on a project, which is scheduled to run for 14 months. Retention is 5%.

Determine the actual cash flow surplus or deficit that will be incurred at the end of each of the first five months of the project. Illustrate your answer with a saw tooth diagram. Assume expenditure is on a straight-line basis over time.

	Forecast month 3	Actual month 1	Actual month 2	Actual month 3
Cumulative valuation amounts	£421 000	£81 000	£204 000	£321 564
Cumulative profits	4%	2.73%	1.95%	1.34%
Payment period client to main contractor	1 month	1 month	1½ months	1½ months
Payment period main contractor to subcontractors and suppliers	1 month	1½ months	2 months	2 months

(20 marks)

b. Briefly explain why 'in times of crisis, cashflow is more important than profit'.

(5 marks)

Total 25 marks

END OF QUESTIONS