

Exam Questions for June 2017

Contracts and Commercial Practice

Answer 1 of the following questions

Please state the form of contract you have chosen to answer this question.

Q1)

- a) Describe the operation and use of an appropriate cost-value reconciliation system for the Englemere Housing Development. (10marks)
- b) Prepare a typical cost-value reconciliation for the project at final account stage. (15marks)

OR

Q2)

During excavation of the ground works for the properties adjacent to the school playing fields, a collapse occurs associated with the historic "pillar and stall" works.

Compare the possible outcomes for the client and contractor depending on the forms of contract that could be entered into. (25 works)

Management

Answer 1 of the following questions

Q1)

- a) Outline appropriate planning techniques that might be used to plan and control the works. (10 marks)
- b) Prepare a construction programme for the works using an appropriate technique, highlighting the sequencing of the main construction activities. (15 marks)

OR

Q2)

- a) List the sub-contractors to be employed on the housing development. (5 marks)
- b) Explain how the co-ordination and control of the sub-contractors may be achieved, including performance evaluation. (20 marks)

Health, Safety and the Environment

Answer 1 of the following questions

Q1)

At the early stages of the project the operatives have feedback that the site induction is ineffective, leading to H&S issues.

a) Demonstrate how you would improve this and include the induction example at the stage of the project where ground works is commencing. (25marks)

OR

Q2)

a) Prepare a technical report to reduce the environmental impact in relation to site set up, temporary works and site management. (15 marks)

b) Include a site plan identifying the measures you have selected (10 marks)

Construction Technology

Answer 1 of the following questions

Q1)

Apply illustrations against House type A for this question.

Compare and contrast with the aid of illustrations the different forms of house construction that might be used on the Englemere development. (25marks)

OR

Q2)

Prepare an illustrated technical report that makes recommendations for the design of the foundation systems suitable for the houses to be constructed on the site. Make any reasonable assumptions as to the ground bearing capacity and method of construction of the houses based on the information provided. (25 marks)

5 Attachments are allowed for the Construction Technology question.