

Exam Questions for November 2016

Contracts and Commercial Practice

Answer 1 of the following questions

Q1) There is a dispute between the Client and Contractor concerning the thermal performance of the building and the solar gain from the curtain walling.

Discuss the options available for resolution of this dispute. **(25 marks)**

OR

Q2) Explain how the current economic climate, in your country, impacts on the construction industry and the likely effect on this project. **(25 marks)**

Management

Answer 1 of the following questions

Q1) In order to maintain high levels of productivity, the contractor proposes to maximise the appropriate use of plant and equipment in the construction of the basement.

- a) List the types of plant and equipment to be used during this section of work. **(5 marks)**
- b) Prepare a detailed programme of the basement construction, identifying the plant listed in section a) above (20 marks)

OR

Q2)

- a) List the relevant parties within the supply chain for the project and the services they will provide. **(10 marks)**
- b) Discuss the requirements of a suitable information management system to support the project supply chain for accurate and timely communications. **(15 marks)**

Health, Safety and the Environment

Answer 1 of the following questions

Q1) Prepare a site specific risk assessment to cover the demolition works and temporary support associated with the existing façade. **(25 marks)**

OR

Q2) Discuss the features that may be incorporated into the design and construction of the project in order to achieve a carbon neutral development. **(25 marks)**

Construction Technology

Answer 1 of the following questions

Illustrations - hand drawn, CAD or other software can be used. Please upload a PDF only

Q1)

A) Illustrate a suitable method for temporally excluding the ground water during the works.
(10 Marks)

B) Explain with the aid of illustrations a method for the construction of the basement to make it suitable for a lecture theatre. **(15 marks)**

OR

Q2)

The new glazed curtain wall façade is orientated to the South. The client has raised concerns about overheating and how the façade will be maintained.

Provide a report for the client that deals with the following factors;

a) Discuss and illustrate alternative treatments for this part of the building. **(15 marks)**

b) Discuss how the façade could be safely maintained. **(10 marks)**