

Exam Questions for June 2016

Contracts and Commercial Practice

Answer 1 of the following questions

Q1)

It is proposed that a design and build form of procurement be used to carry out the works. Contrast this form of procurement with alternative methods of procurement with which you are familiar. Highlight the merits and demerits in each case. **(25 Marks)**

Moodle international candidates comments.

For candidates outside of the UK and using non-UK contracts, please state which country you are from and the name of the contract you are using.

OR

Q2)

The contract is to be awarded on a management contract, where the management contractor employs works contractors to carry out the construction, and manages the project for a fee.

Owing to the risk element of pricing certain sections of the works, the client has requested that the management contractor operates an appropriate cost monitoring system.

Describe the design structure and operation of such a system to avoid cost overruns during the production process. **(25 marks)**

Management

Answer 1 of the following questions

Q1)

- a) Prepare one organisation chart for the main contractor's personnel to ensure an appropriate management structure for the design and build works. **(10 marks)**
- b) Explain the key roles and responsibilities of the main contractor's personnel during both the design phase and the operational phase of the project. **(15 marks)**

OR

Q2)

- 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)**

Health, Safety and the Environment

Answer 1 of the following questions

Q1)

- a) Discuss the relevant environmental legislation that the contractor needs to be aware of before carrying out construction works. **(10 marks)**
- b) Explain the measures that have to be taken during the construction works to minimise damage to the environment and wildlife. **(15 marks)**

OR

Q2)

Examine requirements of a systematic process for an element of construction work of your choice, on the project, to meet Occupational Safety and Health (OSH) regulations and standards.

(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)

Describe and illustrate the fire safety engineering features required for the Park Terrace and illustrate how the movement, circulation and evacuation of people will be achieved. **(25 marks)**

OR

Q2)

Describe and illustrate, with the aid of diagrams, how the existing façade

- a) can be temporally supported. **(10 marks)**
- b) can be permanently attached to the new building. **(15 marks)**