

Exam Questions for June 2019

CONTRACTS AND COMMERCIAL PRACTICE

ANSWER ONLY 1 OF THE QUESTIONS. You are allowed 4 attachments. 1 must be the front cover sheet.

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

If you are using local regulations, please state which country they relate to.

Q1)

Given that the location is within a restricted urban environment, examine the factors influencing the cost of the construction project. You should consider these costs from the principal contractor's perspective.

(30 Marks)

OR

Q2)

An architect has been appointed to develop a concept design and to obtain full planning approval, but no decision has been taken on the procurement route. Prepare a report for the client, justifying your recommendations, on the alternative procurement options and the contractor selection and contract award process.

(30 Marks)

MANAGEMENT

ANSWER ONLY 1 QUESTION. You are allowed 4 attachments. 1 must be the front cover sheet.

Q1)

The designed office development is to occupy most of the site boundary in order to maximise on accommodation for the client.

Prepare a resources strategy for the project detailing the appropriate use, storage and security of plant, equipment and materials during the construction process.

(30 Marks)

OR

Q2

The retail units at ground floor level of the development are to be completed and occupied prior to completing the upper floors of the office accommodation.

Prepare a programme for the development clearly illustrating how phased completion and occupation may be carried out.

(30 Marks)

HEALTH, SAFETY AND THE ENVIRONMENT

ANSWER ONLY 1 QUESTION

You are allowed 4 attachments. 1 must be the front cover sheet.

Q1

As the Principal Contractor prepare a health and safety management plan for the development, including how the segregation of construction operatives, office workers, and the general public will be achieved during phased construction and occupancy.

(30 Marks)

OR

Q 2

Discuss the appropriate activities that should be carried out by the principal contractor and the specialty contractors during the construction phase of the project to promote an environmentally sustainable development.

(30 Marks)

CONSTRUCTION TECHNOLOGY

ANSWER ONLY 1 QUESTION

You are allowed 6 attachments. 1 must be the front cover sheet.

Q1

The proposed lettable office spaces utilise exposed concrete soffits and chilled beams (convection HVAC Systems).

Assuming the floors are concrete, prepare an illustrated technical report that describes construction options for the floors that would provide an acceptable level of finish for the exposed concrete soffits.

(30 Marks)

OR

Q2

A) Prepare an illustrated technical report that discusses the options available for the temporary exclusion of groundwater during the construction of the basement car park.

(10 Marks)

B) Describe proposals for the basement construction that would ensure an acceptable level of waterproofing for the basement

(20 Marks)