

UNIVERSITY COLLEGE LONDON

University of London

EXAMINATION FOR INTERNAL STUDENTS

For The Following Qualification:–

B.Sc.

ES2020: Project Management I

COURSE CODE : ENVS2020

UNIT VALUE : 0.50

DATE : 28-APR-06

TIME : 10.00

TIME ALLOWED : 3 Hours

ENVS2020 – Project Management 1

Answer 4 questions. All questions carry equal marks

1) Describe the characteristics of procuring a public sector constructed facility through Public Private Partnership or PPP (previously known as the Private Finance Initiative or PFI). Why was this system of procurement introduced and what disadvantages in other procurement routes is it intended to overcome? (25 marks)

2) a) EXCLUDING clients, designers, contractors and their non-utility supply chain actors, WHAT OTHER individuals, agencies, utility supply chain actors (dealing with electricity, gas, telecommunications, water/sewage), departments of large organisations and/or authorities may direct, modify or otherwise intervene in what is constructed on a site AND/OR in the processes through which construction takes place? What are the purposes of such interventions (15 marks)

b) Describe EITHER i) The considerate constructor's scheme OR ii) A code of construction practice.

What is the purpose of the arrangement you have described and what matters would you expect it to cover? (10 marks)

3 a) List and describe the nature and content of documentation that a contractor needs to deliver to the client at handover/practical completion stage. (15 marks)

b) What is the purpose of such documentation? (10 marks)

4 a) What type of developments are most likely to require an Environmental Impact Assessment. What areas of concern will such an assessment deal with? (15 marks)

b) What type of developments are most likely to arouse opposition among local residents and why? (10 marks)

5) a) What do you understand by financial market discipline (for companies quoted on a public stock exchange) in relation to insolvency, gearing, the cost of capital, takeovers and risk? (15 marks)

b) To the extent that a client retains all or part of the risks associated with project budget/schedule overruns, how does failure in budget/schedule control (for the whole project) affect the client's financial market position when a large project is involved? (10 marks)

6) What are:-

- a) the advantages and disadvantages/limitations
- b) the appropriate uses

of the following in monitoring and controlling adherence to planned schedule and/or budgeted cost in the construction phase of a project:-

- i) Network analysis/Critical path method
- ii) Line-of-balance method
- iii) Work Breakdown Structure
- iv) Periodic monitoring of actual cost incurred (25 marks)

7) In a construction project:-

- a) What are the costs of poor quality to the client, the consultant and the contractor? (10 marks)
- b) What other measures might also be used to measure poor quality? (5 marks)
- c) What particular problems are there in the UK construction industry which might give rise to poor quality? (10 marks)

8) For a construction contractor engaged on the construction phase of project:-

- a) What are the main sources of risk? (10 marks)
- b) What is the timing and the main methods for identifying risks? What kind of data would you expect to get from evaluating these risks? (15 marks)

END OF PAPER