

2004 Paper 7 Question 13

Business Studies

A software project has two phases, each with three tasks. They are expected to take the following amount of effort:

Phase 1:
Analysis: 3 weeks
Code: 2 weeks
Test: 1 week

Phase 2:
Analysis: 1 week
Code: 2 weeks
Test: 3 weeks

Within a phase a task cannot start until the previous task completes. A task in Phase 2 cannot start until the corresponding task in Phase 1 has completed.

- (a) Draw the PERT and Gantt charts for the project. What is the minimum elapsed time? [5 marks]
- (b) Two staff are assigned to the project, an analyst and a programmer. The analyst also acts as test engineer. How long will the project take with this staffing? [5 marks]
- (c) The analyst is charged out at a fixed rate of £500/day and the programmer at £300/day, including overheads. How much would you quote for the project and why? [5 marks]
- (d) Explain how you would monitor such a project. How would you turn the result into a product? [5 marks]