



UNIVERSITY OF COLOMBO, SRI LANKA

UNIVERSITY OF COLOMBO SCHOOL OF COMPUTING

DEGREE OF BACHELOR OF INFORMATION TECHNOLOGY (EXTERNAL)

Academic Year 2004/2005 – 2nd Year Examination – Semester 4

IT4202: Software Project Management

PART 2 – Structured Question Paper

13th August, 2005
(TWO HOURS)

To be completed by the candidate

BIT Examination Index No: _____

Important Instructions:

- The duration of the paper is **2 (Two) hours**.
- The medium of instruction and questions is English.
- This paper has **4 questions** and **15 pages**.
- **Answer all 4 questions.** Question **1** carries **40 marks** and **other three** questions carry **20 marks each**.
- **Write your answers** in English using the space provided **in this question paper**.
- Do not tear off any part of this answer book.
- Under no circumstances may this book, used or unused, be removed from the Examination Hall by a candidate.
- Note that questions appear on both sides of the paper.
If a page is not printed, please inform the supervisor immediately.

Questions Answered

Indicate by a cross (x), (e.g. X) the numbers of the questions answered.

To be completed by the candidate by marking a cross (x).	1	2	3	4
To be completed by the examiners:				

CASE STUDY

“ColombaKade” is a famous hardware store for supplying building construction material in the South, and dealing with both wholesale and retail business. It has several branches in the Southern cities. Mr. Sudantha, who is one son of the founder of this organization, is the current managing director and he wants to expand business activities using Information and Communication Technology (ICT).

Mr. Sudantha presented his idea to the other Directors of the business at one of the recent Board Meetings of the Directors and they agreed to allocate some money to initiate the project. However, some Directors felt that this could be a waste of money and that there be a significant benefit to the business. Since Mr. Sudantha is a busy businessman, he appointed a small team to start the project. Mr. Lasith who is an assistant accountant, was appointed as the leader of the team and he was given two other members from new recruits. In addition, Mr. Sudantha will also help the team in evaluating and finalizing decisions.

The project team was instructed to use ICT in three directions: give publicity to the business operations since many foreign NGOs are working in the area to reconstruct tsunami affected houses, streamline internal management of all branches in order to share all resources and provide supply chain management through an e-business model.

- 1) (a) Who are the stakeholders of “ColombaKade ICT” project? (Name at least five groups) **(05 marks)**

ANSWER IN THIS BOX

- (b) Since the local government may provide some financial support to the project, Mr. Sudantha wanted to select someone from the accounts department as the manager of the project. Describe your views on the appointment of Mr. Lasith as the project manager considering the nature of work involved.

(08 marks)

ANSWER IN THIS BOX

Continued...

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(c) Some others think that this is a meaningless project because of the nature of business in the “ColomboKade”. List arguments in favour of the project. In order to justify these arguments, a feasibility study should be carried out by Mr. Lasith and his team. What would be the structure of such a feasibility report in abstract terms?

(12 marks)

ANSWER IN THIS BOX

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Continued...

ANSWER IN THIS BOX

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Continued...

- (b) If the website allows customers to place online orders and to settle their bills using credit cards, what are the key quality attributes which must be considered? Mr. Lasith has a poor knowledge about quality planning and needs your assistance. Describe what information is required as the input for the process and what the outputs would be of quality planning process.

(08 marks)

ANSWER IN THIS BOX

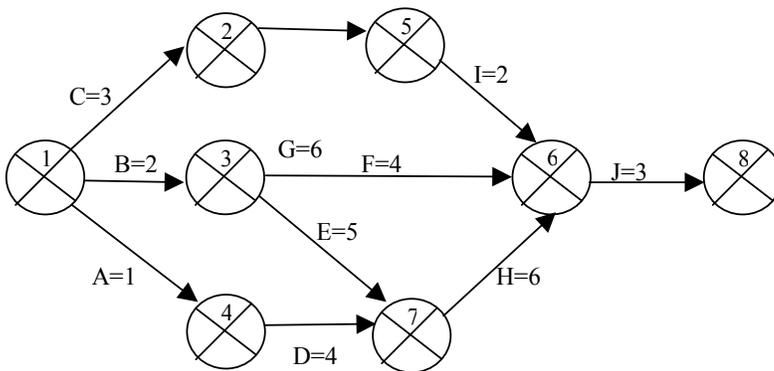
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- 4) (a) What is the critical path in a project network? Why is it so important in the time management of a project?

(05 marks)

ANSWER IN THIS BOX

- (b) Calculate the Earliest Start (ES), Earliest Finish (EF), Latest Start (LS), Latest Finish (LF), Free Slack (FS) and Total Slack (TS) for the following network diagram. Project Start date is November 2nd which is a Monday. No work is done during weekends and there are also no holidays on workdays. Assume that the work starts in the morning of a day and finishes in the evening.



In the diagram, activity durations are given in days.

(15 marks)

ANSWER IN THIS BOX

Activity	Earliest Start (ES)	Earliest Finish (EF)	Latest Start (LS)	Latest Finish (LF)	Free Slack(FS) / Total Slack(TS)
A					
B					
C					
D					
E					
F					
G					
H					
I					
J					
