UNIVERSITY OF COLOMBO, SRI LANKA

UNIVERSITY OF COLOMBO SCHOOL OF COMPUTING

DEGREE OF BACHELOR OF INFORMATION TECHNOLOGY (EXTERNAL)

Academic Year 2017 – 2nd Year Examination – Semester 4

IT4205: IT Project Management

Part 2 - Structured Question Paper

18th November, 2017

(ONE HOUR)

To be completed by the candidate

BIT Examination Index No: .....

Important Instructions:

- The duration of the paper is **1 (one) hour**.
- The medium of instruction and questions is English.
- This paper has **02 questions** on **04 pages**.
- **Answer all questions.** All questions carry equal marks.
- **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.
- **Non-programmable calculators are allowed.**

Questions Answered

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

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

1) (a) A company has identified six risks, their likelihood and the impacts these risks make to the overall project according to four categories: `low, moderate, significant` and `high`. The risks and their effects are given in the table below:

Risk Code	Likelihood	Impact
R1	High	High
R2	Moderate	Significant
R3	Moderate	Significant
R4	High	Moderate
R5	Low	Moderate
R6	Moderate	High

Using the information given in the table, draw a probability impact matrix. Clearly specify the tolerance line and the positions of each risk in the matrix.

[10 marks]

ANSWER IN THIS BOX

(*Likelihood)*				
HIGH		**R4**		**R1**
SIGNIFICANT				
MODERATE			**R2** **R3**	**R6**
LOW		**R5**		
	LOW	**MODERATE**	**SIGNIFICANT**	**HIGH**

Impact

(b) The Manager of Digital Infrastructure in Sri Lanka has decided to computerize the Department of Motor Vehicles and offer the services provided by the department 100% online.

(i) Mention three (03) risks that could negatively affect the project once deployed as a result of the managers' decision and how each of them can be avoided while keeping with the development proposed by the manager.

[12 marks]

ANSWER IN THIS BOX

(1) Access to Computers for General Public

Manning a regional help desk with computer literate officers to aid customers in accessing the services.

(2) Computer Literacy of Public

By introducing touch based systems to avoid extended interaction with computers. Manning a regional help desk with computer literate officers to aid customers in accessing the services.

(3) Internet Penetration in Sri Lanka

Internet Penetration is Sri Lanka is still low apart from Western province and major cities of other provinces. To avert the risk of project failure due to internet penetration issues, the project has to facilitate internet services to other parts of the country. One way to avert this problem would be to provide a dedicated station with a mobile internet facility. Another approach would be to make the solution mobile friendly.

(ANY THREE ANSWERS ALONG THE LINES MENTIONED ABOVE CAN BE ACCPTED)

(ii) Explain what is meant by **risk transference** and give an example of when it is applicable in a software project.

[03 marks]

Risk transference is the shifting of the consequence of a risk and responsibility for its management to a third party

Example would be an insurance for project critical hardware. In case the hardware fails, it's the responsibility of the insurer to replace the hardware within the said period.

2) Consider the following scenario:

Ahri, Kat, Talon, Xin, Lux, Ezreal, Xayah and **Karthus** are eight individuals that are assigned specific tasks in the overall project titled "Saving the Rift". Tasks are named after each individual. Furthermore, during time estimation it was revealed that the completion time for tasks conducted by **Talon and Karthus** was **six (6)** weeks each. Similarly, **Xin's** task was estimated to take **seven (7)** weeks whilst tasks by **Ahri, Ezreal, Xayah, Kat** and **Lux** were estimated to take **twelve (12), ten (10), five (5), four (4)** and **one (1)** weeks respectively. Apart from the time estimations of the tasks, the following task dependencies were identified:

- **Ahri's** task needs to be complete before **Talon** could begin.
- **Kat's** task needs to be complete before **Talon**, **Xin** and **Lux** could begin their tasks.
- **Lux** and **Ezreal** needs to complete their tasks before **Xayah** could begin her task.
- **Talon** and **Xin** needs to complete their tasks before **Karthus** could begin his task.

The skeleton of the activity-on-note network diagram node for the project is given below. Complete it by naming the nodes with their task names and linking them. Also fill the other relevant values in respect of each node. Strictly follow the description of the node context given. Clearly mark the critical path too. **(Please take extra care when completing the diagram as answers written on any other paper than this will not be evaluated.)**

Earliest Start	Duration	Earliest Finish
Task Name		
Latest Start	Slack	Latest Finish

[25 marks]