UNIVERSITI TUN HUSSEIN ONN MALAYSIA

FINAL EXAMINATION
SEMESTER II
SESSION 2011/2012

COURSE NAME	:	PROJECT MANAGEMENT
COURSE CODE	:	BIT 3043
PROGRAMME	:	BACHELOR OF INFORMATION TECHNOLOGY
EXAMINATION DATE	:	JUNE 2012
DURATION	:	2 HOURS AND 30 MINUTES
INSTRUCTION	:	ANSWER **ALL** QUESTIONS

THIS QUESTION PAPER CONSISTS OF FOUR (4) PAGES

Instruction: Answer **ALL** questions.

Q1 Aras4 Consultant Sdn Bhd is required to develop an online Patient Payment System (PPS) and then integrate it with the existing online Patient Attendance System (PAS). The system was developed using VB.NET. The top management insisted that the new system must be developed using open source software to reduce cost. During risk assessment, the integration process has been identified as the potential risk for the project. As the head of programmer, you are required to create the risk response plan, as it is very important to the project manager in dealing with the risk.

(a) State and explain **FOUR (4)** types of risk response plans.

(8 marks)

(b) Give **ONE (1)** example of each plan for each risk identified in Q1(a).

(8 marks)

Q2 Aras5 Consultant Sdn Bhd needs equipment for a FoLDA project that has a purchase price of RM 12,000.00. Assume it also had a daily operational cost of RM 400.00. Suppose you could lease the same piece of equipment for RM 800.00 per day, including the operational costs.

(a) Set up an equation in which the purchase cost equals the lease cost to determine when it makes sense financially to lease or buy the equipment.

(10 marks)

(b) What happen if Aras7 Consultant Sdn Bhd needs the equipment for "less than" and "more than" based on answer in Q1(a).

(4 marks)

Q3   **Figure Q3** shows an e-Bahan project with activities A, B, C and its duration. Assume Activity A has 2 workers, B has 4 workers and C has 2 workers.
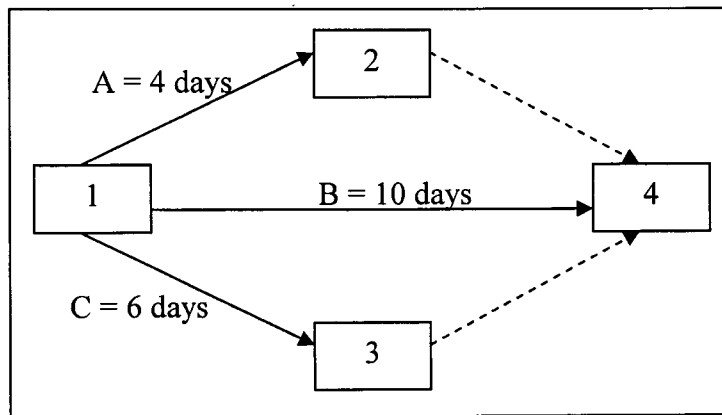

Figure Q3

a)   Illustrate a histogram of resource leveling for resource usage
i)   if all activities start on day one
ii)   if activity C is delayed 4 days

(10 marks)

b)   Based on answer in Q3(a), which histogram do you prefer. Support your answer with **TWO (2)** reasons.

(5 marks)

Q4   Aras6 Consultant Sdn Bhd is going to design the user interface for an online Payment System in four weeks. The project manager allocates RM 60,000 for completing the task. After four weeks, the team has spent RM 65,000, but only 60% of job done.

(a)   Calculate:
(i)   Earned value (EV)
(ii)   Cost variance (CV)
(iii)   Schedule variance (SV)
(iv)   Cost Performance Index (CPI)
(v)   Schedule Performance Index (SPI)

(10 marks)

(b)   Based on the CPI value, state **ONE (1)** conclusion that can be made. Provide your justification.

(5 marks)

Q5 Aras7 Consultant Sdn Bhd is handling project e-Faraid. This project consists of nine work packages (WP), WPA, WPB, WPC, WPD, WPE, WPF, WPG, WPH and WPI. **Figure Q5** show all the flow of work packages of project e-Faraid.
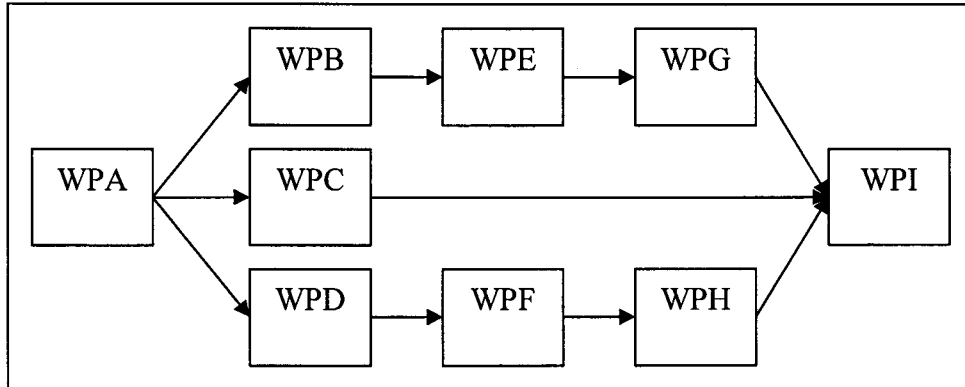

Figure Q5

Assume all duration estimates are in days, the start date of the project is 19th March 2012 and all day are working days. WPA has an estimated duration of 15 days, WPB has an estimated duration of 7 days, WPC has an estimated duration of 5 days, WPD has an estimated duration of 4 days, WPE has an estimated duration of 5 days, WPF has an estimated duration of 2 days, WPG has an estimated duration of 10 days, WPH has an estimated duration of 9 days and WPI has an estimated duration of 7 days. With an aid of **ONE (1)** new network diagram, calculate early start date, late start date, early finish date, late finish date for each work package. Which path is critical path and gives **ONE (1)** reason.

(40 marks)