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UNIVERSITI SAINS MALAYSIA

Second Semester Examination  
2012/2013 Academic Session

June 2013

**RQG 359 – Pengurusan Kos dan Nilai 2**  
***[Cost and Value Management 2]***

Duration: 3 hours  
*[Masa: 3 jam]*

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Please check that this examination paper consists of FOUR pages of printed material before you begin the examination.

*Sila pastikan bahawa kertas peperiksaan ini mengandungi EMPAT muka surat yang tercetak sebelum anda memulakan peperiksaan ini.*

Students are allowed to answer all questions either in English OR in Bahasa Malaysia only.

*Pelajar dibenarkan menjawab semua soalan dalam Bahasa Inggeris ATAU Bahasa Malaysia sahaja.*

Answer **QUESTION NO 1**, which is **COMPULSORY**, and **THREE** other questions.

*Jawab **SOALAN NO. 1** yang **DIWAJIBKAN** dan mana-mana **TIGA** soalan lain.*

In the event of any discrepancies, the English version shall be used.

*[Sekiranya terdapat sebarang percanggahan pada soalan peperiksaan, versi Bahasa Inggeris hendaklah digunapakai].*

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**Question 1 is COMPULSORY**  
**Soalan 1 adalah WAJIB.**

1. (a) “Construction information is the cornerstone of Value Management (VM)”. Discuss.

*“Maklumat binaan merupakan tonggak utama Value Management (VM)”. Bincangkan.*

- (b) Discuss the concept of strategic function analysis with regards to the mission of a project.

*Bincangkan konsep analisis fungsi strategik yang berkaitan misi sesuatu projek.*

- (c) Use flow charts to illustrate the importance of ‘Group Dynamics’ as part of a participatory problem – solving model.

*Dengan menggunakan carta-aliran, nyatakan kepentingan ‘Group Dynamics’ sebagai suatu bahagian model penyelesaian masalah ‘participatory’.*

- (d) “The VM concept has evolved over the years and so has its usefulness and applications”. Discuss

*“Konsep VM telah berubah (evolved) sejak kebelakangan ini, termasuk juga kegunaan serta aplikasinya”. Bincangkan.*

- (e) Suggest clearly how a 6 - Phase Job Plan can be implemented within a 20-hour VM Workshop.

*Sarankan dengan jelas bagaimana suatu Job Plan 6-Fasa boleh dilaksanakan dalam suatu Bengkel VM 20-jam.*

- (f) Define and differentiate :-

*Takrif dan bezakan :-*

- (i) Design VM  
(ii) Strategy VIM

(40 marks/markah)

2. (a) You have been selected as VM Team Coordinator to conduct a study on the biggest issues facing the Quantity Surveying (QS) profession. With the aid of charts and illustrations, describe the steps you would take, within the context of a 6-phase Job Plan and a 3-day Workshop. Your answer must encompass all aspects of a comprehensive VM study that clearly shows a value outcome.

*Anda telah dipilih sebagai VM Team Coordinator untuk menjalankan kajian VM tentang isu-isu terpenting yang menghadapi profesion Ukur Bahan. Dengan panduan carta-carta serta lakaran-lakaran, ulaskan langkah-langkah yang akan dilaksanakan, dalam konteks suatu Job Plan 6-fasa dan Bengkel VM 3 hari. Jawapan anda harus merangkumi kesemua aspek suatu kajian VM komprehensif yang mewujudkan 'Value outcome'.*

(10 marks/markah)

- (b) Explain the Value Equation briefly.  
*Secara ringkas, huraikan Value Equation.*

(10 marks/markah)

3. (a) According to Kelly et. al, the essential ingredients of a successful VM study involves four (4) components. Describe what these components are.

*Mengikut Kelly et. al, bahan-bahan utama dalam kajian VM yang berhasil melibatkan empat (4) komponen. Ulaskan tentang komponen-komponen tersebut.*

- (b) Discuss how Link-Thinking/Mind Mapping can assist in developing the functional analysis phase of a VM Job Plan.

*Bincangkan bagaimana konsep-konsep Link – Thinking/Mind Mapping boleh membantu dalam memajukan fasa analisis fungsi untuk sesuatu VM Job Plan.*

(20 marks/markah)

4. (a) Discuss how the Quantity Surveyor can improve investment decisions by adopting Whole Life Costings (WLC) and describe the significance and drawbacks of the WLC principles.

*Bincangkan bagaimana Juruukur Bahan boleh tingkatkan keputusan-keputusan pelaburan dengan penggunaan Whole Life Costings (WLC) dan huraikan kelebihan-kelebihan serta kekurangan-kekurangan prinsip-prinsip WLC.*

- (b) With the aid of illustrations, indicate the relationship of design excellence to the concept of cost.

*Dengan panduan, ilustrasi-ilustrasi, tunjukkan kaitan di antara 'design excellence' dan konsep pengesanan.*

(20 marks/markah)

5. (a) Describe the importance of facilitation to the overall VM process, clearly outlining the foundational values behind Facilitative Leadership.

*Huraikan tentang mustahaknya 'facilitation' terhadap proses VM secara menyeluruh, dengan menunjukkan nilai-nilai asas di sebalik konsep Facilitative Leadership.*

- (b) Discuss the issues related to Sustainability Costing and the role of the QS in its implementation.

*Bincangkan tentang isu-isu yang berkaitan dengan 'Sustainability Costing' serta peranan Juruukur Bahan dalam implementasinya.*

(20 marks/markah)