SULIT

BAHAGIAN PEPERIKSAAN DAN PENILAIAN
JABATAN PENDIDIKAN POLITEKNIK DAN KOLEJ KOMUNITI
KEMENTERIAN PENGAJIAN TINGGI

JABATAN KEJURUTERAAN AWAM

PEPERIKSAAN AKHIR

SESI I : 2022/2023

DCQ40182 : PROFESSIONAL PRACTICE 2

TARIKH : 15 DISEMBER 2022
MASA : 2.30 PM – 4.30 PM (2 JAM)

Kertas ini mengandungi **DUA BELAS (12)** halaman bercetak.
Bahagian A: Struktur (2 soalan)
Bahagian B: Esei (4 soalan)
Dokumen sokongan yang disertakan : Tiada

JANGAN BUKA KERTAS SOALAN INI SEHINGGA DIARAHKAN

(CLO yang tertera hanya sebagai rujukan)

SULIT

SECTION A : 50 MARKS
BAHAGIAN A : 50 MARKAH

INSTRUCTION :

This section consists of **TWO (2)** structured questions. Answer **ALL** questions.

ARAHAN :

*Bahagian ini mengandungi **DUA (2)** soalan berstruktur. Jawab **SEMUA** soalan.*

QUESTION 1
SOALAN 1

CLO1 C2 (a) Explain the purpose of Provisional Sum included in the tender documents for the execution of a construction project.
Terangkan tujuan Wang Peruntukan Sementara dimasukkan ke dalam dokumen tender bagi pelaksanaan sesuatu projek pembinaan.

[6 marks]
[*6 markah*]

CLO1 C3 (b) In the implementation of government construction project, prepare the flowchart of Prime Cost Sum management procedure at the construction stage.
Dalam perlaksanaan projek pembinaan kerajaan, sediakan tatacara pengurusan Wang Kos Prima pada peringkat pembinaan.

[8 marks]
[*8 markah*]

CLO1 C3

(c) The contractors who are participating in the tender are required to put the percentage of profit and a lump sum price for the attendance charges in the space provided in bills of quantities for the Prime Cost Sum works. However, the profits and the attendance charges will only be obtained by the Main Contractor if the works involved are executed by a Nominated Sub Contractor. Interpret the rationale of profits and attendance charges allocated to the Main Contractor from execution of Prime Cost Sum works.
Kontraktor yang menyertai tender dikehendaki meletakkan kadar peratus bagi keutungan dan harga pukal bagi caj layanan di ruang yang disediakan dalam senarai kuantiti bagi kerja-kerja Wang Kos Prima. Walau bagaimanapun, keuntungan dan caj layanan hanya akan diperolehi oleh Kontraktor Utama sekiranya kerja terlibat dilaksanakan oleh Sub Kontraktor Dinamakan. Tafsirkan rasional keuntungan dan caj layanan diperuntukan kepada Kontraktor Utama dari perlaksanaan kerja Wang Kos Prima.

[11 marks]
[*11 markah*]

QUESTION 2
SOALAN 2

CLO1 C2

(a) Contract Sum and Previous Payment are two important matters that need to be considered in the preparation of interim payments. Explain both matters.
Harga Kontrak dan Bayaran Sebelumnya merupakan dua perkara penting yang perlu dipertimbangkan dalam penyediaan bayaran interim. Terangkan mengenai kedua-dua perkara tersebut.

[6 marks]
[*6 markah*]

CLO1 C3

(b) To initiate the interim payment process to the main contractor, the parties involved are responsible to discuss some early issues on related matters. Interpret the important issues that need to be decided in the Preliminary Stage to enable the interim payment process to be made smoothly.
Untuk memulakan proses bayaran interim kepada kontraktor utama, adalah menjadi tanggungjawab pihak-pihak terlibat untuk membincangkan beberapa isu awal mengenai perkara berkaitan. Tafsirkan isu-isu penting yang perlu diputuskan pada Peringkat Awalan bagi membolehkan proses bayaran interim dapat dilaksanakan dengan lancar.

[8 marks]
[*8 markah*]

CLO1
C3

(c) Based on the PAM Standard Form of Contract, prepare a flow chart to show the interim payment procedure to be followed.
Berdasarkan Borang Kontrak Piawai PAM, sediakan carta alir bagi menunjukkan prosedur bayaran interim yang perlu dipatuhi.

[11 marks]
[*11 markah*]

SECTION B : 50 MARKS
BAHAGIAN B : 50 MARKAH

INSTRUCTION :

This section consists of **FOUR (4)** essay questions. Answer **TWO (2)** questions only.

ARAHAN :

Bahagian ini mengandungi ***EMPAT (4)*** *soalan esei. Jawab* ***DUA (2)*** *soalan sahaja.*

QUESTION 1
SOALAN 1

Table B1(a): Preliminaries Works Breakdown

Jadual B1(a): Pecahan Kerja-kerja Awalan

Item	Description	Amount (RM)	Initial Cost (RM)	Progressive Cost (RM)	Completion Cost (RM)
A	Preliminaries works	844,263.00	213,765.00	501,964.00	128,534.00

- Contract sum = RM 16,580,600.00
  Jumlah harga kontrak

- Prime Cost sum = RM 920,000.00
  Wang kos prima

- Provisional sum = RM 480,000.00
  Wang peruntukan sementara

- Net value of work executed (Interim Payment No. 6) = RM 4,258,082.60
  Nilai bersih kerja yang telah dilaksanakan (Bayaran Interim No. 6)

CLO1 C3

(a) Based on the information in Table B1(a), Compute the Interim Payment No. 6 for Preliminaries Works using the pro-rate on the value of work executed method.
Berdasarkan maklumat dalam Jadual B1(a). Kirakan Bayaran Interim No. 6 bagi Kerja-kerja Awalan dengan menggunakan kaedah pro-rata ke atas nilai kerja yang telah dilaksanakan.

[10 marks]
[*10 markah*]

CLO1 C4

(b) The evaluation of payment is made to the items priced in the BQ by the contractor. Determine **THREE (3)** cost categories with appropriate examples for the quantity surveyor to consider in preparing interim payment for the Preliminaries Works.
Penilaian bayaran dibuat terhadap perkara yang dihargakan oleh Kontraktor di dalam senarai kuantiti. Tentukan ***TIGA (3)*** *kategori kos berserta contoh-contoh yang sesuai bagi dipertimbangkan oleh juruukur bahan dalam menyediakan bayaran interim untuk Kerja-kerja Awalan.*

[15 marks]
[*15 markah*]

QUESTION 2
SOALAN 2

CLO1
C3

(a) Based on data as shown in Table B2(a), calculate the amount of Interim Payment No. 5.
Berdasarkan data seperti yang ditunjukkan dalam Jadual B2(a), kirakan jumlah Bayaran Interim No. 5.

Table B2(a)
Jadual B2(a)

NEW ACADEMIC BLOCK CONSTRUCTION PROJECT AT SULTAN ABDUL HALIM MU'ADZAM SHAH POLYTECHNIC **Interim Payment No. 5**			
Item	Description	Amount (RM)	Workdone (%)
A	Preliminaries	1,967,500.00	32 %
B	Building Works	12,052,250.00	24 %
C	Prime Cost Sum	6,585,860.00	1 %
D	Provisional Sum	5,100,000.00	2 %
E	External Works	2,384,120.00	9 %
• Unfixed Materials On Site			: RM 180,255.00
• Previous Interim Payment (No. 1 – No. 4)			: RM 3,216,510.00
Note: Percentage of unfixed materials on site to be paid to contractor			: 90 %

[10 marks]
[*10 markah*]

CLO1
C4

(b) There are two standard forms of contract that are often used for the implementation of building construction projects in Malaysia namely the PWD Standard Form of Contract in the public sector and the PAM Standard Form of Contract in the private sector. Compare the interim payment procedures based on PWD Standard Form of Contract and PAM Standard Form of Contract.

Terdapat dua borang kontrak piawai yang sering digunakan bagi perlaksanaan projek-projek pembinaan bangunan di Malaysia iaitu Borang Kontrak Piawai PWD dalam sektor kerajaan dan Borang Kontrak Piawai PAM dalam sektor swasta. Bandingkan prosedur bayaran interim berdasarkan Borang Kontrak Piawai PWD dan Borang Kontrak Piawai PAM.

[15 marks]
[*15 markah*]

QUESTION 3

SOALAN 3

CLO1
C3

(a) Other than Valuation of Variations, identify **TWO (2)** other steps that need to be implemented first in the procedure of variation of work based on PAM 2018 Standard Form of Contract to enable the contractor to obtain payment from the implementation of variation of work involved.

Selain daripada Menilai Perubahan, kenalpasti ***DUA (2)*** *langkah lain yang perlu dilaksanakan terlebih dahulu dalam prosedur pelaksanaan sesuatu perubahan kerja berdasarkan Borang Kontrak Piawai PAM 2018 bagi membolehkan kontraktor mendapatkan bayaran daripada perlaksanaan perubahan kerja terlibat.*

[10 marks]

[*10 markah*]

CLO1
C4

(b) A valuation of variation works has become a daily task on large construction contracts. It is a norm where one of the contracting parties disagrees about the valuation of work done. Therefore, the valuation of variation orders has become one of the main causes of conflicts and disputes in construction management. After the Measurement of Variations of work has been completed, determine **THREE (3)** price rate rules that can be considered for Valuation of Variations. Explain the price rate rules with appropriate example.
*Penilaian kerja perubahan telah menjadi tugas harian ke atas kontrak pembinaan yang besar. Ia adalah satu norma di mana salah satu pihak yang berkontrak tidak bersetuju tentang penilaian kerja yang dilakukan. Oleh itu, penilaian kerja perubahan telah menjadi salah satu punca utama konflik dan pertikaian dalam pengurusan pembinaan. Setelah Pengukuran Perubahan kerja selesai dilaksanakan, tentukan **TIGA (3)** peraturan kadar harga yang boleh dipertimbangkan bagi Menilai Perubahan kerja berkenaan. Jelaskan peraturan kadar harga tersebut dengan contoh yang sesuai.*

[15 marks]
[15 markah]

QUESTION 4
SOALAN 4

CLO1
C3

(a) You are involved in the construction project of the New Administrative Complex of Padang Terap District which is currently in the final stage of the construction process. Based on the PWD 203/203A (Rev.1/2010) Standard Form of Contract used for the project, prepare a flow chart to show the procedure that must be followed in the preparation of the final account.
*Anda terlibat dalam projek pembinaan Kompleks Pentadbiran Baru Daerah Padang Terap yang kini berada pada peringkat akhir proses pembinaan. Berdasarkan Borang Kontrak Piawai PWD*203/203A(Pind.1/2010) *yang digunakan untuk projek berkenaan, sediakan carta alir bagi menunjukkan prosedur yang mesti dipatuhi dalam penyediaan akaun muktamad.*

[10 marks]
[*10 markah*]

CLO1
C4

(b) A Final Account prepared after practical completion in building contracts is an overall agreed statement of the total amount of money to be paid at the end of a building contract by the employer to the contractor. In a construction contract, the final account is an agreed statement concerning the amount of money to be paid at the end of a contract by the client to the contractor. Based on the PWD Standard Form of Contract, determine **FIVE (5)** matters related to the final account preparation.
Akaun muktamad yang disediakan selepas penyiapan praktikal dalam kontrak bangunan adalah penyata keseluruhan yang dipersetujui tentang jumlah wang yang perlu dibayar pada akhir kontrak bangunan oleh majikan kepada kontraktor. Dalam kontrak pembinaan, akaun muktamad ialah penyata yang dipersetujui mengenai jumlah wang yang perlu dibayar pada akhir kontrak oleh pelanggan kepada kontraktor. Berdasarkan Borang Kontrak Piawai PWD, tentukan ***LIMA (5)*** *perkara yang berkaitan dengan penyediaan akaun muktamad.*

[15 marks]
[*15 markah*]

SOALAN TAMAT