

SULIT



KEMENTERIAN PENDIDIKAN TINGGI
JABATAN PENDIDIKAN POLITEKNIK DAN KOLEJ KOMUNITI

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

JABATAN KEJURUTERAAN AWAM

PEPERIKSAAN AKHIR

SESI I : 2024/2025

DCQ20104: BUILDING WORKS MEASUREMENT 2

TARIKH : 10 DISEMBER 2024

MASA : 8.30 PAGI – 10.30 PAGI (2 JAM)

Kertas soalan ini mengandungi **TUJUH (7)** halaman bercetak.

Bahagian A: Subjektif (2 soalan)

Bahagian B: Subjektif (4 soalan)

Dokumen sokongan yang disertakan : Kertas Dimensi, Kertas Billing,
Bar Bending Schedule

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)** subjective questions. Answers **ALL** questions.

ARAHAN:

Bahagian ini mengandungi DUA (2) soalan subjektif. Jawab SEMUA soalan.

QUESTION 1

SOALAN 1

- | | |
|------|--|
| CLO1 | <p>(a) Identify taking off list for beam.
<i>Kenalpasti senarai kuantiti bagi rasuk.</i></p> <p style="text-align: right;">[5 marks]
[5 markah]</p> |
| CLO1 | <p>(b) Based on Drawing No. DCQ20104/FRAME, calculate the quantity measurement for concrete work in the floor beam.
<i>Berdasarkan lukisan no. DCQ20104/FRAME, hitungkan pengukuran kuantiti untuk kerja konkrit dalam rasuk lantai.</i></p> <p style="text-align: right;">[8 marks]
[8 markah]</p> |
| CLO1 | <p>(c) Summarize the measured quantities (b) as the bill of quantities.
<i>Rumuskan kuantiti terukur bagi (b) sebagai senarai kuantiti.</i></p> <p style="text-align: right;">[12 marks]
[12 markah]</p> |

QUESTION 2**SOALAN 2**

- CLO1 (a) By referring to SMM2, describe the measuring guidelines for formwork on slab edges using SMM2.
Merujuk kepada SMM2, jelaskan peraturan pengukuran bagi kerja acuan untuk sisi lantai.
[5 marks]
[5 markah]
- CLO1 (b) Based on Drawing No. **DCQ20104/UPPERFLOOR**, calculate the quantity measurements for concrete work and formwork to the slab edges.
Berdasarkan lukisan no. DCQ20104/UPPERFLOOR, hitungkan pengukuran kuantiti untuk kerja konkrit dan kerja acuan sisi lantai.
[8 marks]
[8 markah]
- CLO1 (c) Summarize the measured quantities (b) as the bill of quantities.
Rumuskan kuantiti terukur bagi (b) sebagai senarai kuantiti.
[12 marks]
[12 markah]

SECTION B : 50 MARKS**BAHAGIAN B : 50 MARKAH****INSTRUCTION:**

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

ARAHAN:

*Bahagian ini mengandungi **EMPAT (4)** soalan subjektif. Jawab **DUA (2)** soalan tersebut.*

QUESTION 1**SOALAN 1**

- CLO1 (a) Based on Drawing No. **DCQ20104/STAIRCASE**, calculate quantity measurement for concrete work in the landing slab.
*Berdasarkan lukisan no **DCQ20104/STAIRCASE**, sediakan pengukuran kuantiti bagi kerja konkrit di pelantar lantai.*
[8 marks]
[8 markah]
- CLO1 (b) Based on Drawing No. **DCQ20104/STAIRCASE**, conclude a bill of quantities complete with quantity measurement for formwork to landing slab.
*Berdasarkan lukisan no **DCQ20104/STAIRCASE**, rumuskan satu senarai kuantiti lengkap dengan pengukuran kuantiti bagi kerja acuan di pelantar lantai.*
[17 marks]
[17 markah]

QUESTION 2**SOALAN 2**

- CLO1 (a) Based on Drawing No. **DCQ20104/ROOF**, calculate the quantity measurement for the wall plate and tie beam.
Berdasarkan lukisan no. DCQ20104/ROOF, sediakan pengukuran kuantiti untuk plat dinding dan alang rasuk.
[8 marks]
[8 markah]
- CLO1 (b) Based on Drawing No. **DCQ20104/ROOF**, conclude a bill of quantities complete with quantity measurement for the gutter, bends, and nozzle outlet.
Berdasarkan lukisan no DCQ20104/ROOF, rumuskan satu senarai kuantiti lengkap dengan pengukuran kuantiti bagi longkang bumbung, bends dan nozzle outlet.
[17 marks]
[17 markah]

QUESTION 3**SOALAN 3**

- CLO1 (a) Based on Drawing No. **DCQ20104/WALL**, calculate the quantity measurement for the internal wall at gridline B/2-3.
Berdasarkan lukisan no. DCQ20104/WALL, sediakan pengukuran kuantiti bagi dinding dalam pada garis grid B/2-3.
[8 marks]
[8 markah]

- CLO1 (b) Based on Drawing No. **DCQ20104/WALL**, conclude a bill of quantities complete with quantity measurement for damp proof course in the internal wall.
Berdasarkan lukisan no DCQ20104/WALL, rumuskan satu senarai kuantiti lengkap dengan pengukuran kuantiti bagi kerja kalis lembapan pada dinding dalam.

[17 marks]

[17 markah]

QUESTION 4**SOALAN 4**

- CLO1 (a) Based on Drawing No. **DCQ20104/DOOR**, calculate the quantity measurement for the door lintel and door frame.
Berdasarkan lukisan no DCQ20104/DOOR, sediakan pengukuran kuantiti untuk lintol pintu dan kerangka pintu.

[8 marks]

[8 markah]

- CLO1 (b) Based on Drawing No. **DCQ20104/WINDOW**, conclude a bill of quantities complete with quantity measurement for window leaf and timber jamb.
Berdasarkan lukisan no DCQ20104/WINDOW, rumuskan satu senarai kuantiti lengkap dengan pengukuran kuantiti bagi daun tingkap dan sisi jambi kayu .

[17 marks]

[17 markah]

SOALAN TAMAT