

SULIT



**BAHAGIAN PEPERIKSAAN DAN PENILAIAN
JABATAN PENDIDIKAN POLITEKNIK DAN KOLEJ KOMUNITI
KEMENTERIAN PENDIDIKAN MALAYSIA**

JABATAN KEJURUTERAAN AWAM

PEPERIKSAAN AKHIR

SESI JUN 2018

DCG5173 : CADASTRAL SURVEYING 2

TARIKH : 28 OKTOBER 2018

MASA : 2.30 PETANG – 4.30 PETANG (2 JAM)

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

Bahagian A: Struktur (2 soalan)

Bahagian B: Struktur (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. Answers **ALL** questions.

ARAHAN:

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

QUESTION 1

SOALAN 1

CLO1
C2

- (a) Cadastral system in Malaysia has shifted to cadastral system based on coordinates known as Coordinated Cadastral Survey (CCS). Describe **FIVE (5)** disadvantages of cadastral system prior to CCS.

Sistem kadaster di Malaysia telah beralih kepada sistem kadaster berdasarkan koordinat yang dikenali sebagai Sistem Kadaster Berkordinat (CCS). Jelaskan LIMA (5) kelemahan sistem kadaster sebelum CCS.

[10 marks]

[10 markah]

CLO1
C3

- (b) Zero Baseline Test is a technic in GPS calibration. This activity is conducted to test the quality of antenna, receiver, cable and GPS data processing software. Based on the Director General of Survey and Mapping Circular No. 6/1999, explain the procedures of Global Positioning System (GPS) equipment calibration for 'Zero Baseline Test'.

Zero Baseline Test adalah teknik kalibrasi peralatan GPS. Aktiviti ini dilakukan untuk menguji kualiti antenna, penerima, kabel dan perisian pemprosesan data GPS. Berdasarkan kepada Pekeliling Ketua Pengarah Ukur dan Pemetaan Bil 6/1999, terangkan prosedur kalibrasi alat Sistem Penentuan kedudukan Global (SPG) untuk 'Zero Baseline Test'.

[15 marks]

[15 markah]

QUESTION 2**SOALAN 2**CLO1
C2

- (a) Explain the method of measurement of height at every storey and dimensional measurement for parcel, accessory parcel, and common properties, based on Circular of Director General of Survey and Mapping Malaysia 1/2015.

Terangkan kaedah pengukuran tinggi setiap tingkat dan pengukuran dimensi bagi petak, petak aksesori dan harta bersama, berdasarkan Pekeliling Ketua Pengarah Ukur dan Pemetaan Malaysia Bilangan 1/2015.

[10 marks]

[10 markah]

CLO1
C3

- (b) Based on Circular of Director General of Survey and Mapping Malaysia 1/2015. Explain the methods of numbering buildings and provisional block in Strata Title.

Berdasarkan Pekeliling Ketua Pengarah Ukur dan Pemetaan Malaysia Bilangan 1/2015. Terangkan kaedah-kaedah penomboran bangunan dan blok sementara di dalam Hakmilik Strata.

[15 marks]

[15 markah]

SECTION B : 50 MARKS
BAHAGIAN B : 50 MARKAH

INSTRUCTION:

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

ARAHAN:

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

QUESTION 1

SOALAN 1

CLO1
C1

- (a) Describe the objective of Coordinated Cadastral Sistem (CCS).

Jelaskan objektif Sistem Kadaster Berkoordinat (SKB).

[5 marks]

[5 markah]

CLO1
C2

- (b) E-Kadaster is developed with several modules to enable all cadastral data to be integrated into a database. Identify **FIVE (5)** modules in e-Kadaster.

E-Kadaster dibangunkan bersama beberapa modul bagi membolehkan semua data kadaster diintegrasikan dalam satu pangkalan data. Kenal pasti LIMA (5) modul dalam e-Kadaster.

[5 marks]

[5 markah]

CLO2
C3

- (c) Based on the Director General of Survey and Mapping Circular No. 1/2008, explain the procedures of 'Daily Test' for Global Navigation Satellite System (GNSS) equipment calibration.

Berdasarkan kepada Pekeliling Ketua Pengarah Ukur dan Pemetaan Bil 1/2008, terangkan prosedur 'Ujian Harian' bagi kalibrasi alat Sistem Penentuan kedudukan Sejagat (GNSS).

[15 marks]

[15 markah]

QUESTION 2**SOALAN 2**CLO1
C1

- (a) Define the definition of “Building” based on Circular of Director General of Survey and Mapping Malaysia 1/2015.

Jelaskan definisi “Bangunan” berdasarkan Pekeliling Ketua Pengarah Ukur dan Pemetaan Malaysia Bilangan 1/2015.

[5 marks]

[5 markah]

CLO1
C2

- (b) The parcel’s boundary for building that has been awarded Certificate of Fitness for Occupation (CFO) is referred to the original boundary based on the fixed build features. Describe the features of the fixed build.

Sempadan petak bagi bangunan yang telah mendapat Sijil Layak Menduduki (SLM) adalah merujuk kepada had sempadan petak yang asal berdasarkan ciri-ciri binaan tetap. Huraikan ciri-ciri binaan tetap.

[5 marks]

[5 markah]

CLO1
C3

- (c) Prepare the procedures of measurements to determine position of buildings and provisional blocks, based on Circular of Director General of Survey and Mapping Malaysia 1/2015.

Sediakan prosedur pengukuran bagi menentukan kedudukan bangunan dan blok-blok sementara, berdasarkan Pekeliling Ketua Pengarah Ukur dan Pemetaan Malaysia Bilangan 1/2015.

[15 marks]

[15 markah]

QUESTION 3**SOALAN 3**

- CLO1
C1
- (a) Describe the meaning of “Stratum” based on the Natinal Land Code (NLC).
Huraikan maksud “Stratum” berdasarkan Kanun Tanah Negara (KTN).
- [5 marks]
[5 markah]
- CLO1
C2
- (b) Describe **FIVE (5)** plans to be submitted to the Land Office for Stratum Title application purpose.
*Huraikan **LIMA (5)** pelan yang perlu dikemukakan kepada Pejabat Tanah bagi tujuan permohonan Hakmilik Stratum.*
- [5 marks]
[5 markah]
- CLO1
C3
- (c) Stratum plan which is based on as-built survey which should consist of Stratum Location Plan, Stratum Plan, Usage Plan and Stratum Access Plan. Describe the information that must be included in Stratum Access Plan.
Pelan Stratum adalah berasaskan ukuran sediabina (as-built) hendaklah mengandungi pelan lokasi stratum, pelan stratum, pelan penggunaan, dan pelan laluan stratum. Terangkan maklumat yang mesti dimasukkan dalam Pelan Akses Stratum.
- [15 marks]
[15 markah]

QUESTION 4**SOALAN 4**

- CLO1
C1
- (a) Identify **FIVE (5)** functions of Malaysia Land Surveyors Board (LSB).
*Kenalpasti **LIMA (5)** fungsi i- fungsi Lembaga Jurukur Tanah Malaysia (LJT)*
- [5 marks]
[5 markah]

CLO1
C2

- (b) Identify distinct in Royal Institute of Surveyor Malaysia (RISM).

Kenalpasti bahagian dalam Institut Jurukur DiRaja Malaysia (RISM).

[5 marks]

[5 markah]

CLO1
C3

- (c) The fee shall be deposited with the Licensed Land Surveyor Board (LSB) by the client before the title survey is carried out. Clearly explain the section 99(3) of Licensed Land Surveyors Act 1958 (Act 458) to clarify the fee and method of payment by Licensed Land Surveyor Board (LSB) to the Licensed Land Surveyor.

Bayaran deposit hendaklah dibayar kepada Lembaga Juruukur Berlesen oleh pelanggan sebelum urusan hakmilik dijalankan. Terangkan seksyen 99 (3) Akta Juruukur Tanah Berlesen 1958 (Akta 458) untuk menjelaskan bayaran dan kaedah pembayaran oleh Lembaga Juruukur Tanah Berlesen (LJT) kepada Juruukur Tanah Berlesen.

[15 marks]

[15 markah]

SOALAN TAMAT