

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 : 2025/2026

DCW50222: TIMBER TRADE

TARIKH : 25 NOVEMBER 2025

MASA : 8.30 PAGI – 10.30 PAGI (2 JAM)

Kertas soalan ini mengandungi **LAPAN (8)** halaman bercetak.

Bahagian A: Struktur (2 soalan)

Bahagian B: Struktur (4 soalan)

Dokumen sokongan yang disertakan : Lampiran A

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 (a) Identify **FIVE (5)** functions of the Wood Industry Skills Development Centre (WISDEC).
*Kenal pasti **LIMA (5)** peranan Pusat Pembangunan Kemahiran Industri Kayu (WISDEC).*
- [5 marks]
[5 markah]
- CLO1 (b) As a major contributor to economic growth, trade benefits a nation in various ways. Identify the importance of trade to the country.
Sebagai penyumbang utama kepada pertumbuhan ekonomi, perdagangan memberi manfaat kepada sesebuah negara dalam pelbagai cara. Kenal pasti kepentingan perdagangan kepada negara.
- [10 marks]
[10 markah]
- CLO1 (c) To maintain smooth domestic trade, various parties must ensure products are distributed, services are provided, and consumer needs are met. In this context, explain **FIVE (5)** parties involved in domestic trade.
*Bagi memastikan perdagangan dalam negeri berjalan lancar, pelbagai pihak perlu mengagihkan produk, menyediakan perkhidmatan, dan memenuhi keperluan pengguna. Dalam konteks ini, terangkan **LIMA (5)** pihak yang terlibat dalam perdagangan dalam negeri.*
- [10 marks]
[10 markah]

QUESTION 2**SOALAN 2**

- CLO1 (a) Identify **FIVE (5)** roles of an agent in international trade.
Kenal pasti LIMA (5) peranan ejen dalam perdagangan antarabangsa.
- [5 marks]
[5 markah]
- CLO1 (b) Describe **FIVE (5)** equipments used by graders in the timber grading procedures.
Huraikan LIMA (5) peralatan yang digunakan oleh penggred dalam prosedur penggredan kayu.
- [10 marks]
[10 markah]
- CLO1 (c) A furniture manufacturer in Malaysia is expanding production to meet high export demand. However, the company is facing concerns about limited wood supply and its heavy reliance on foreign workers. Based on this situation, explain the sustainability issues related to wood supply and foreign workers.
Sebuah pengeluar perabot di Malaysia sedang meningkatkan pengeluaran untuk memenuhi permintaan eksport yang tinggi. Walau bagaimanapun, syarikat tersebut berdepan isu bekalan kayu yang terhad serta kebergantungan tinggi terhadap pekerja asing. Berdasarkan situasi ini, terangkan isu kelestarian yang berkaitan dengan bekalan kayu dan pekerja asing.
- [10 marks]
[10 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 berstruktur. Jawab DUA (2) soalan sahaja.

QUESTION 1
SOALAN 1

- CLO1 (a) Describe trade within the context of economic activities.
Huraikan perdagangan dalam konteks aktiviti ekonomi.
- [5 marks]
[5 markah]
- CLO1 (b) To reach different consumers, goods are distributed through wholesale and retail trade. Based on this situation, explain the characteristics of retail trade and wholesale trade.
Untuk mencapai pelbagai pengguna, barang diagihkan melalui perdagangan borong dan runcit. Berdasarkan situasi ini, terangkan ciri-ciri perdagangan runcit dan borong.
- [10 marks]
[10 markah]
- CLO1 (c) Malaysia wants to strengthen its timber sector to stay competitive. The Malaysian Timber Council (MTC) and the Malaysian Timber Industry Board (MTIB) play key roles in this effort. Based on this situation, explain how these two agencies contribute to the development and support of the timber industry.
Malaysia ingin memperkukuh sektor perkayuan agar kekal berdaya saing. Majlis Kayu-Kayan Malaysia (MTC) dan Lembaga Perindustrian Kayu Malaysia (MTIB) memainkan peranan penting dalam usaha ini. Berdasarkan situasi ini, terangkan bagaimana kedua-dua agensi ini menyumbang kepada pembangunan dan sokongan industri kayu.
- [10 marks]
[10 markah]

QUESTION 2**SOALAN 2**

- CLO1 (a) Identify **FIVE (5)** basic procedures involved in the import process.
Kenal pasti LIMA (5) prosedur asas yang terlibat dalam proses import.
- [5 marks]
[5 markah]
- CLO1 (b) An exporter is preparing documents to complete an international trade transaction. To ensure smooth processing, explain the purpose of the indent, export invoice, and receipt in export documentation.
Seorang pengeksport sedang menyediakan dokumen untuk melengkapkan urusan niaga perdagangan antarabangsa. Bagi memastikan proses berjalan lancar, terangkan tujuan indent, inois eksport, dan resit dalam dokumentasi eksport.
- [10 marks]
[10 markah]
- CLO1 (c) A company is entering into an international trade contract and must decide how costs and responsibilities will be shared between buyer and seller. Based on this case, explain the **FOUR (4)** main groups of Incoterms.
Sebuah syarikat akan memeterai kontrak perdagangan antarabangsa dan perlu menentukan bagaimana kos serta tanggungjawab dibahagikan antara pembeli dan penjual. Berdasarkan kes ini, terangkan EMPAT (4) kumpulan utama Incoterms.
- [10 marks]
[10 markah]

QUESTION 3**SOALAN 3**

- CLO1 (a) Identify the grades of wood and their grade marks under the General Market Specifications.

Kenal pasti gred kayu dan tanda grednya di bawah Spesifikasi Pasaran Umum.

[5 marks]

[5 markah]

- CLO1 (b) The General Market Specifications (GMS) provide standards to ensure the quality and reliability of timber products on the market. Based on this guideline, explain the general requirements applied in the GMS.

Spesifikasi Pasaran Am (GMS) menyediakan piawaian untuk memastikan kualiti dan kebolehpercayaan produk kayu di pasaran. Berdasarkan garis panduan ini, terangkan keperluan umum yang diguna pakai dalam GMS.

[10 marks]

[10 markah]

- CLO1 (c) A piece of timber measures 8 inches in width and 12 feet in length, with defects as illustrated in Figure 3(c). Using Appendix A as reference, calculate the grade of this timber.

Sekeping kayu berukuran 8 inci lebar dan 12 kaki panjang dengan kecacatan seperti yang ditunjukkan dalam Rajah 3(c). Berdasarkan Lampiran A sebagai rujukan, kirakan gred kayu ini.

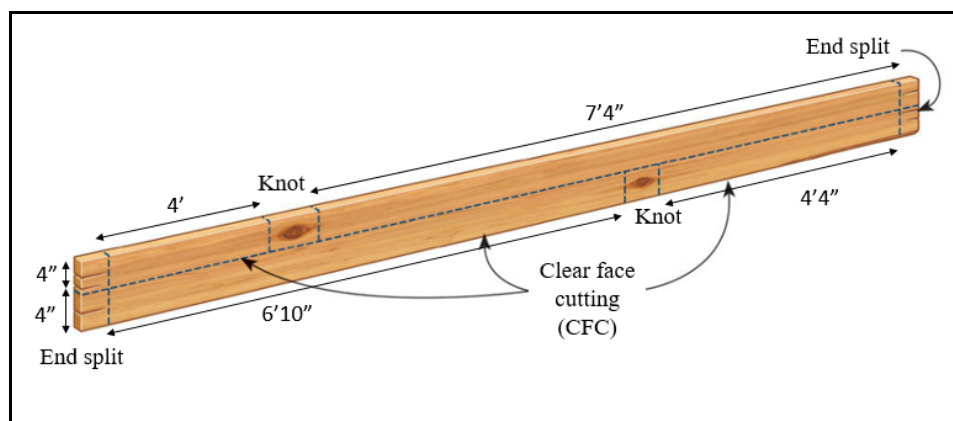


Figure 3(c) / Rajah 3(c)

[10 marks]

[10 markah]

QUESTION 4**SOALAN 4**

- CLO1 (a) Identify **FIVE (5)** timber products from Malaysia that are exported to international markets.
- Kenal pasti LIMA (5) produk kayu dari Malaysia yang dieksport ke pasaran antarabangsa.*
- [5 marks]
[5 markah]
- CLO1 (b) Timber products must meet both domestic and international expectations for quality and sustainability. Based on this situation, explain the roles of the Malaysian Standard (MS) and the Malaysian Timber Certification Scheme (MTCS) in supporting the timber industry.
- Produk kayu perlu memenuhi jangkaan domestik dan antarabangsa dari segi kualiti serta kelestarian. Berdasarkan situasi ini, terangkan peranan Malaysian Standard (MS) dan Skim Pensijilan Kayu Malaysia (MTCS) dalam menyokong industri perkayuan.*
- [10 marks]
[10 markah]
- CLO1 (c) The timber industry must remain competitive in a rapidly changing, innovative-driven global economy. Based on this situation, explain the current global challenges affecting the wood industry.
- Industri perkayuan perlu kekal berdaya saing dalam ekonomi global yang dipacu oleh inovasi dan teknologi. Berdasarkan situasi ini, terangkan cabaran global semasa yang dihadapi oleh industri kayu.*
- [10 marks]
[10 markah]

SOALAN TAMAT

Table 1: Grading requirement for GMS

GRADE	(I) PRIME	(II) SELECT	(III) STANDARD	(V) SERVICEABLE
h) Cutting Requirements	<p>*Surface area</p> <p>3 to <5 5 to <8 8 to <11 11 to <14 14 & up</p> <p>Percentage clear</p> <p>100% (12/12) 91 2/3% (11/12) 83 1/3% (10/12) or 91 2/3% (11/12) 83 1/3% (10/12) or 91 2/3% (11/12) 83 1/3% (10/12) or 91 2/3% (11/12)</p> <p>No. of CFC</p> <p>1 1 1 2 2 3 3 4</p> <p>minimum size of cuttings: 4" x 5" or 5" x 4"</p>	<p>*Surface area</p> <p>2.5 to <3 3 to <5 5 to <8 8 to <11 11 to <14 14 & up</p> <p>Percentage clear</p> <p>100% (12/12) 75% (9/12) 75% (9/12) 75% (9/12) 75% (9/12) 75% (9/12)</p> <p>No. of CFC</p> <p>1 1 2 3 4 5</p> <p>minimum size of cuttings: 4" x 3" or 3" x 4"</p>	<p>*Surface area</p> <p>2.5 to <5 5 to <8 8 to <11 11 to <14 14 & up</p> <p>Percentage clear</p> <p>66 2/3% (8/12) 66 2/3% (8/12) 66 2/3% (8/12) 66 2/3% (8/12) 66 2/3% (8/12)</p> <p>No. of CFC</p> <p>1 2 3 4 5</p> <p>(CFC includes bright sapwood)</p> <p>minimum size of cuttings: 3" x 3" or 4" x 2"</p>	<p>*Surface area</p> <p>2.5 to <5 5 to <8 8 to <11 11 to <14 14 & up</p> <p>Percentage clear</p> <p>66 2/3% (8/12) 66 2/3% (8/12) 66 2/3% (8/12) 66 2/3% (8/12) 66 2/3% (8/12)</p> <p>No. of SFC</p> <p>1 2 3 4 5</p> <p>(SFC admits brittle heart)</p> <p>minimum size of cuttings: 3" x 3" or 4" x 2"</p>
i) Grading Requirements	<p>Admits pieces that yield the required percent of CFCs, the portion outside will admit splits as in item 4.6 page 16, and SFC defects</p>	<p>Admits pieces that yield the required percent of CFCs, the portion outside will admit splits as in item 4.6 page 16, and SFC defects</p>	<p>Admits pieces that yield the required percent of CFCs, the portion outside will admit splits as in item 4.6 page 16, SFC defects and SDs not materially affecting the strength of the piece</p>	<p>Admits piece that yields the required percent of SFCs, the portion outside will admit splits as in item 4.6 page 16, wane, brittle heart as in Table above and any SDs not materially affecting the strength of the piece</p>
IV. SOUND (or BHND – Borer Holes No Defect) - As for Prime, Select, and Standard grades except that pin and unstained shot holes are admitted in the cuttings, as defined in Rule 24, item 24.3.				
VI. UTILITY - As for Serviceable grade except that wane is not to exceed one quarter the width of the piece; cuttings will admit any sound defects not materially affecting the strength of the piece.				
* Surface area of piece in square feet				

(Source: The Malaysian Grading Rules for Sawn Hardwood Timber 2009 Edition, MTIB)