

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

DCW50222 : TIMBER TRADE

**TARIKH : 2 DISEMBER 2024
MASA : 8.30 PAGI – 10.30 PAGI**

Kertas ini mengandungi **SEMBILAN (9)** 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 Malaysian Timber Industry Board (MTIB).
*Kenal pasti **LIMA (5)** peranan Lembaga Perindustrian Kayu Malaysia (MTIB).*
[5 marks]
[5 markah]
- CLO1 (b) Trade is essentially a voluntary exchange between two parties needing each other's resources such as goods and services. Identify the importance of trade to the nation.
Perdagangan pada asasnya adalah pertukaran sukarela antara dua pihak yang memerlukan sumber masing-masing seperti barangan dan perkhidmatan. Kenal pasti kepentingan perdagangan kepada negara.
[10 marks]
[10 markah]
- CLO1 (c) The movement of products across borders is a complex process that requires coordination and collaboration between many different people and entities. Based on the statement, explain **FIVE (5)** parties involved in ensuring international trade works smoothly.
*Perdagangan antarabangsa adalah penting kerana negara bergantung kepada negara lain untuk mengimport barangan yang tidak tersedia di negara mereka sendiri. Berdasarkan pernyataan ini, terangkan **LIMA (5)** pihak yang terlibat dalam memastikan perdagangan antarabangsa berfungsi dengan lancar.*
[10 marks]
[10 markah]

QUESTION 2**SOALAN 2**

- CLO1 (a) Identify **FIVE (5)** types of transportation commonly used in domestic trade.
Kenal pasti LIMA (5) jenis pengangkutan yang biasa digunakan dalam perdagangan domestik.
[5 marks]
[5 markah]
- CLO1 (b) Identify the equipment used by the timber grader during timber grading process and the function of each equipment.
Kenal pasti peralatan yang digunakan oleh pengred kayu dan fungsi bagi setiap peralatan tersebut semasa proses penggredan kayu dilakukan.
[10 marks]
[10 markah]
- CLO1 (c) The timber trade faces numerous global challenges affecting both international markets and local communities. Explain current issues in the global wood industry, providing examples to support your answer.
Perdagangan kayu menghadapi pelbagai cabaran global yang menjejaskan kedua-dua pasaran antarabangsa dan komuniti tempatan. Terangkan isu semasa dalam industri kayu global, berikan contoh untuk menyokong jawapan anda.
[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 **FIVE (5)** meanings of trade.
*Huraikan **LIMA (5)** maksud perdagangan.*
- [5 marks]
[5 markah]
- CLO1 (b) As a businessman, you will consider the best way to market your goods. Based on this statement, explain the retail trade and wholesale trade that you may choose to market your products.
Sebagai ahli perniagaan, anda akan mempertimbangkan cara terbaik untuk memasarkan barangan anda. Berdasarkan pernyataan ini, terangkan perdagangan runcit dan perdagangan borong yang mungkin anda pilih untuk memasarkan produk anda.
- [10 marks]
[10 markah]
- CLO1 (c) Explain the functions of the Forest Research Institute Malaysia (FRIM) and the Malaysian Timber Certification Council (MTCC) with one example of program undertaken by each agency to support the timber industry.
Terangkan fungsi Institut Penyelidikan Perhutanan Malaysia (FRIM) dan Majlis Pensijilan Kayu Malaysia (MTCC) dengan satu contoh program yang dijalankan oleh setiap agensi untuk menyokong industri kayu.
- [10 marks]
[10 markah]

QUESTION 2**SOALAN 2**

- CLO1 (a) Identify **FIVE (5)** import procedure in the correct order.
Kenal pasti LIMA (5) prosedur eksport mengikut susunan yang betul.
[5 marks]
[5 markah]
- CLO1 (b) Trade documents are crucial for buying and selling goods, especially in international trade. Explain the export invoice, receipt, and air bill, which help track transactions, ensure legal compliance, and manage shipping.
Dokumen perdagangan adalah penting untuk membeli dan menjual barangan, terutamanya dalam perdagangan antarabangsa. Terangkan invois eksport, resit dan bil udara, yang membantu menjejaki urus niaga, memastikan pematuhan undang-undang dan mengurus penghantaran..
[10 marks]
[10 markah]
- CLO1 (c) To facilitate global business, the International Chamber of Commerce (ICC) produces a set of Incoterms also known as international commercial terms. Explain the terms Ex Works (EXW) and Delivered Duty Paid (DDP) as used by traders.
Untuk memudahkan perniagaan global, Dewan Perniagaan Antarabangsa (ICC) menghasilkan satu set Incoterms yang juga dikenali sebagai terma komersial antarabangsa. Terangkan terma Ex Works (EXW) dan Delivered Duty Paid (DDP) seperti yang digunakan oleh pedagang.
[10 marks]
[10 markah]

QUESTION 3**SOALAN 3**

- CLO1 (a) Classify **FIVE (5)** grades and grade marks for scantling wood.

Kelaskan LIMA (5) gred dan simbol gred untuk kayu beruti.

[5 marks]

[5 markah]

- CLO1 (b) Explain grade and grade marks for timber under special market specifications according to the Malaysian Grading Rules (MGR) as listed below:

Terangkan gred dan simbol gred bagi kayu dalam spesifikasi kayu pasaran khas merujuk kepada Peraturan Pemeringkatan Kayu Malaysia (MGR) seperti yang disenaraikan di bawah:

i. Door and window frame
Pintu dan bingkai tingkap

ii. Shorts
Kayu pendek

iii. Strips
Kayu jalur

iv. Scantlings
Kayu beruti

v. Baulks
Balak segi

[10 marks]

[10 markah]

- CLO1 (c) Refer to Figure Q3 (c), calculate the clear face cutting and grade a piece of wood with 9" width and 16' length which contains the following defects (i) knot and (ii) borer holes.

Merujuk kepada Rajah Q3 (c), kirakan jumlah potongan muka bersih dan gredkan sekeping papan yang berukuran 9" lebar dan 16' panjang yang mengandungi cacat-cacat berikut (i) buku kayu dan (ii) lubang penggerek.

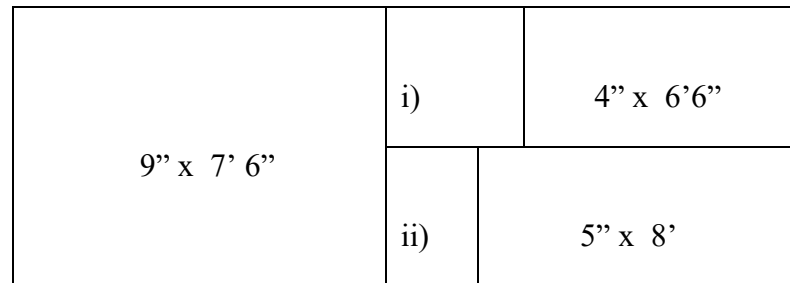


Figure Q3(c) / Rajah Q3(c)

[10 marks]
[10 markah]

QUESTION 4 SOALAN 4

- CLO1 (a) Identify **FIVE (5)** major timber product exports for Malaysia.

*Kenal pasti **LIMA (5)** eksport utama produk kayu Malaysia.*

[5 marks]
[5 markah]

- CLO1 (b) Explain the timber product certifications for the British Standard (BS) and Malaysian Timber Certification Scheme (MTCS). Focus on the purpose of each certification, the criteria used for assessment, and how these certifications ensure quality and sustainability in timber products.

Terangkan pensijilan produk kayu untuk British Standard (BS) dan Malaysian Timber Certification Scheme (MTCS). Fokus pada tujuan setiap pensijilan, kriteria yang digunakan untuk penilaian, dan bagaimana pensijilan ini memastikan kualiti dan kemampanan dalam produk kayu.

[10 marks]
[10 markah]

- CLO1 (c) The timber trade in Malaysia plays a vital role in the country's economy but it faces several challenges that threaten its long-term sustainability and growth. Based on these statements, explain **TWO (2)** main current issues affecting the wood trade in Malaysia.

*Perdagangan kayu di Malaysia memainkan peranan penting dalam ekonomi negara tetapi ia menghadapi beberapa cabaran yang mengancam kemampanan dan pertumbuhan jangka panjangnya. Berdasarkan kenyataan ini, terangkan **DUA (2)** isu-isu semasa yang mempengaruhi perdagangan kayu di Malaysia.*

[10 marks]

[10 markah]

SOALAN TAMAT

Table 1: Grading requirement for GMS

GRADE	(I) PRIME	(II) SELECT	(III) STANDARD	(V) SERVICEABLE
h) Cutting Requirements	*Surface area 3 to < 5 5 to < 8 8 to < 11 or 91 2/3% (11/12) 11 to < 14 or 91 2/3% (10/12) 14 & up or 91 2/3% (11/12)	*Surface area 2.5 to < 3 3 to < 5 5 to < 8 8 to < 11 11 to < 14 14 & up	*Surface area 2.5 to < 5 5 to < 8 8 to < 11 11 to < 14 14 & up (CFC includes bright sapwood)	Percentage clear 100% (12/12) 75% (9/12) 75% (9/12) 75% (9/12) 75% (9/12) 75% (9/12)
i) Grading Requirements	No. of CFC 1 1 1 2 2 3 3 4	Percentage clear 100% (12/12) 75% (9/12) 75% (9/12) 75% (9/12) 75% (9/12) 75% (9/12)	No. of CFC 1 2 3 4 5	Percentage clear 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)
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.	*Surface area 3 to < 5 5 to < 8 8 to < 11 11 to < 14 14 & up	*Surface area 2.5 to < 3 3 to < 5 5 to < 8 8 to < 11 11 to < 14 14 & up	*Surface area 2.5 to < 5 5 to < 8 8 to < 11 11 to < 14 14 & up	*Surface area 2.5 to < 5 5 to < 8 8 to < 11 11 to < 14 14 & up
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 3 to < 5 5 to < 8 8 to < 11 11 to < 14 14 & up	*Surface area 2.5 to < 3 3 to < 5 5 to < 8 8 to < 11 11 to < 14 14 & up	*Surface area 2.5 to < 5 5 to < 8 8 to < 11 11 to < 14 14 & up	*Surface area 2.5 to < 5 5 to < 8 8 to < 11 11 to < 14 14 & up

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