

SULIT



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

JABATAN KEJURUTERAAN AWAM

PEPERIKSAAN AKHIR

SESI I : 2022/2023

DCW50222: TIMBER TRADE

TARIKH : 14 DISEMBER 2022

MASA : 2.30 PM – 4.30 PM (2 JAM)

Kertas 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
C2 (a) Explain the function of Forest Research Institute Malaysia in the timber industry.
Terangkan fungsi Institut Penyelidikan Perhutanan Malaysia dalam industri kayu.
- [5 marks]
[5 markah]
- CLO1
C2 (b) Retail and wholesale trade services are crucial to the efficiency and effective flow of goods from producer to consumer. Identify **FIVE (5)** differences of retail trade and wholesale trade.
*Perkhidmatan perdagangan runcit dan borong adalah penting untuk aliran barangan yang cekap dan berkesan daripada pengeluar kepada pengguna. Kenalpasti **LIMA (5)** perbezaan perdagangan runcit dan perdagangan borong.*
- [10 marks]
[10 markah]
- CLO1
C3 (c) There are main parties involved in export and import transactions that have to cooperate efficiently, have close and open relations with each other, and have easy procedures as possible. Determine **FIVE (5)** roles of exporters and **FIVE (5)** roles of agents as one of the main parties in international trade.
*Terdapat pihak utama yang terlibat dalam urus niaga eksport dan import yang perlu bekerjasama dengan cekap, mempunyai hubungan rapat dan terbuka antara satu sama lain dan mempunyai prosedur semudah mungkin. Tentukan **LIMA (5)** peranan pengeksport dan **LIMA (5)** peranan ejen sebagai salah satu pihak utama dalam perdagangan antarabangsa.*
- [10 marks]

[10 markah]

QUESTION 2
SOALAN 2CLO1
C2

- (a) Identify **FIVE (5)** transportations that are commonly used in domestic trading.
Kenalpasti LIMA (5) pengangkutan yang biasa digunakan dalam perdagangan tempatan.

[5 marks]

[5 markah]

CLO1
C2

- (b) Describe the function of the following equipment for timber grading purpose:
Huraikan fungsi peralatan berikut untuk tujuan pengredan kayu:

- i. Sharp knife
Pisau tajam
- ii. Feeler gauge (0.005 inch)
Tolok feeler (0.005 inci)
- iii. Tally book
Buku perhitungan
- iv. Piece of fine wire
Seutas dawai halus
- v. Copy of the MGR
Salinan MGR

[10 marks]

[10 markah]

CLO1
C3

- (c) Explain Malaysian Standard (MS) and British Standard (BS) as timber product certifications.
Terangkan Standard Malaysia (MS) dan Standard British (BS) sebagai pensijilan produk kayu.

[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
C2 (a) Differentiate the terms of quota and tariff.
Bezakan istilah bagi kuota dan tarif.
- [5 marks]
[5 markah]
- CLO1
C3 (b) Developing a distribution channel strategy that effectively brings products to the final customer involves understanding the difference between a direct channel and an indirect channel. Explain **THREE (3)** types of distribution channels that are commonly used in trading.
Membangunkan strategi saluran pengedaran yang berkesan membawa produk kepada pelanggan akhir melibatkan pemahaman perbezaan antara saluran langsung dan saluran tidak langsung. Terangkan TIGA (3) jenis saluran pengedaran yang biasa digunakan dalam perdagangan.
- [10 marks]
[10 markah]
- CLO1
C3 (c) There are various agencies in the timber industry and wood trade involved. As a new organization in the timber industry, relate the form of assistance that the Malaysian Timber Industry Board (MTIB) and Wood Industry Skills Development Centre (WISDEC) can offer.

Terdapat pelbagai agensi dalam industri perkayuan dan perdagangan kayu yang terlibat. Sebagai organisasi baharu dalam industri perkayuan, kaitkan bentuk bantuan yang boleh ditawarkan oleh Lembaga Perindustrian Kayu Malaysia (MTIB) dan Pusat Pembangunan Kemahiran Industri Kayu (WISDEC).

[10 marks]
[10 markah]

QUESTION 2
SOALAN 2

CLO1
C2

- (a) Identify steps in the import procedure.
Kenalpasti langkah-langkah dalam prosedur import.

[5 marks]
[5 markah]

CLO1
C3

- (b) Domestic trades occur between parties or components in the same countries. Explain components that are involved in domestic trade.
Perdagangan domestik berlaku antara pihak atau komponen di negara yang sama. Terangkan komponen-komponen yang terlibat dalam perdagangan dalam negeri.

[10 marks]
[10 markah]

CLO1
C3

- (c) To facilitate trade around the world, the International Chamber of Commerce (ICC) publishes a set of Incoterms, officially known as international commercial terms. Illustrate Incoterms with complete labels and correct terms.
Untuk memudahkan perdagangan di seluruh dunia, Dewan Perniagaan Antarabangsa (ICC) menerbitkan satu set Incoterms, secara rasmi dikenali sebagai istilah komersial antarabangsa. Ilustrasikan Incoterms dengan label yang lengkap dan istilah yang betul.

[10 marks]
[10 markah]

QUESTION 3**SOALAN 3**

- CLO1
C2 (a) Classify **FIVE (5)** grades and grade marks for scantling wood.
Kelaskan LIMA (5) gred dan tanda gred bagi kayu beruti.
- [5 marks]
[5 markah]
- CLO1
C3 (b) Explain grade and grade marks for the following timber in special market specification according to the Malaysian Grading Rules (MGR):
Terangkan gred dan tanda gred bagi kayu berikut dalam spesifikasi kayu pasaran khas merujuk kepada Peraturan Pemeringkatan Kayu Malaysia (MGR).
- 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
C3 (c) Calculate the clear face cutting and grade a piece of wood with 9” width and 16’ length which contains the following defects. Refer to Appendix A.

Kirakan potongan muka bersih dan gredkan sekeping papan yang berukuran 9'' lebar dan 16' panjang yang mengandungi kecacatan berikut. Rujuk Lampiran A.

9'' x 7' 6''	i)	4'' x 6'6''
	ii)	5'' x 8'

i. Knot

Buku

ii) Borer holes

Lubang penggerek

[10 marks]

[10 markah]

QUESTION 4

SOALAN 4

CLO1
C2

(a) The Malaysian timber industry is one of the major revenue contributors to the Malaysian economy. Identify **FIVE (5)** major timber product exports for Malaysia.

*Industri perkayuan Malaysia merupakan salah satu penyumbang utama sumber ekonomi Malaysia. Kenalpasti **LIMA (5)** eksport utama produk kayu Malaysia.*

[5 marks]

[5 markah]

CLO1
C3

(b) Explain the following current issues of the timber industry in Malaysia:

Terangkan isu-isu semasa industri kayu di Malaysia yang berikut:

i. The sustainability of the wood materials supply

Kemampuan bekalan bahan kayu

ii. Foreign workers

Pekerja asing

[10 marks]

[10 markah]

CLO1
C3

(c) Timber industry is now confronting numerous issues and challenges to sustain their competitive advantage in the current new economy that is extensively driven by innovation and technological capabilities. Explain in details the current issues of the wood industry worldwide.

Industri kayu kini menghadapi pelbagai isu dan cabaran untuk mengekalkan kelebihan kompetitif dalam ekonomi baru semasa yang didorong oleh keupayaan inovasi dan teknologi. Terangkan secara terperinci isu-isu semasa industri kayu dunia.

[10 marks]
[10 markah]

SOALAN TAMAT

GRADE	(I) PRIME	(II) SELECT	(III) STANDARD	(V) SERVICEABLE
h) Cutting Requirements	<p>*Surface area</p> <p>Percentage clear</p> <p>No. of CFC</p> <p>3 to <5 100% (12/12) 1</p> <p>5 to <8 91 2/3% (11/12) 1</p> <p>8 to <11 83 1/3% (10/12) 1</p> <p>or 91 2/3% (11/12) 2</p> <p>11 to <14 83 1/3% (10/12) 2</p> <p>or 91 2/3% (11/12) 3</p> <p>14 & up 83 1/3% (10/12) 3</p> <p>or 91 2/3% (11/12) 4</p> <p>minimum size of cuttings: 4" x 5" or 5" x 4"</p>	<p>*Surface area</p> <p>Percentage clear</p> <p>No. of CFC</p> <p>2.5 to <3 100% (12/12) 1</p> <p>3 to <5 75% (9/12) 1</p> <p>5 to <8 75% (9/12) 2</p> <p>8 to <11 75% (9/12) 3</p> <p>11 to <14 75% (9/12) 4</p> <p>14 & up 75% (9/12) 5</p> <p>minimum size of cuttings: 4" x 3" or 3" x 4"</p>	<p>*Surface area</p> <p>Percentage clear</p> <p>No. of CFC</p> <p>2.5 to <5 66 2/3% (8/12) 1</p> <p>5 to <8 66 2/3% (8/12) 2</p> <p>8 to <11 66 2/3% (8/12) 3</p> <p>11 to <14 66 2/3% (8/12) 4</p> <p>14 & up 66 2/3% (8/12) 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>Percentage clear</p> <p>No. of SFC</p> <p>2.5 to <5 66 2/3% (8/12) 1</p> <p>5 to <8 66 2/3% (8/12) 2</p> <p>8 to <11 66 2/3% (8/12) 3</p> <p>11 to <14 66 2/3% (8/12) 4</p> <p>14 & up 66 2/3% (8/12) 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>
<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.</p>				
<p>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.</p>				
<p>* Surface area of piece in square feet</p>				