

**SULIT**



**BAHAGIAN PEPERIKSAAN DAN PENILAIAN  
JABATAN PENDIDIKAN POLITEKNIK  
KEMENTERIAN PENDIDIKAN TINGGI**

**JABATAN KEJURUTERAAN AWAM**

**PEPERIKSAAN AKHIR  
SESI DISEMBER 2017**

**DCW2082 : TIMBER TRADE**

**TARIKH : 03 APRIL 2018  
MASA : 8.30 PAGI - 10.30 PAGI (2 JAM)**

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

Bahagian A: Struktur (2 soalan)  
Bahagian B: Struktur (4 soalan)

Dokumen sokongan yang disertakan : Table Grading Requirements for GMS

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**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** the questions.

**ARAHAN:**

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

**QUESTION 1**  
**SOALAN 1**

CLO1  
C1

- (a) Define international trade.

*Definisikan perdagangan antarabangsa.*

[5 marks]

[5 markah]

CLO1  
C3

- (b) Illustrate the recommended future structure of timber industry in Malaysia according to NATIP.

*Gambarkan cadangan struktur masa depan industri perkayuan Malaysia menurut NATIP.*

[10 marks]

[10 markah]

CLO1  
C3

- (c) Interpret **FIVE (5)** types of information listed in the bill of lading.

*Huraikan LIMA (5) jenis maklumat yang tersenarai dalam bil muatan.*

[10 marks]

[10 markah]

**QUESTION 2**  
**SOALAN 2**CLO1  
C1

(a) Identify the main target in the third Industrial Master Plan (IMP3).

*Kenalpasti sasaran utama dalam Pelan Induk Perindustrian Ketiga (IMP3).*

[5 marks]

[5 markah]

CLO1  
C2

(b) Explain the responsibilities of the main component of international trade below;

*Terangkan tanggungjawab komponen utama bagi perdagangan antarabangsa yang berikut;*

i. exporters

*pengeksporn*

ii. agent

*agen*

[10 marks]

[10 markah]

CLO1  
C3

(c) General Market Specifications (GMS) are for grading boards and planks which usually re-sawn before being used for a wide variety of purpose. List down general requirements which is used in GMS.

*Spesifikasi Pasaran Umum adalah untuk mengred kayu dan papan yang lazimnya di gergaji semula sebelum ianya digunakan untuk pelbagai kegunaan. Senaraikan keperluan umum yang digunapakai dalam GMS.*

[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.

**ARAHAN:**

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

**QUESTION 1**  
**SOALAN 1**

CLO1  
C2

- (a) Identify **TEN (10)** Malaysian wood products which can be traded in the international market.

*Kenalpasti SEPULUH (10) produk kayu Malaysia yang boleh didagangkan di pasaran antarabangsa.*

[10 marks]  
[10 markah]

CLO1  
C3

- (b) Illustrate the roles of the following agencies which are involved directly in wood based industries in Malaysia.

*Huraikan peranan agensi-agensi berikut yang terlibat secara langsung dalam industri berasaskan kayu di Malaysia.*

- i. MTIB
- ii. FRIM
- iii. MTCC
- iv. MTC
- v. SAFODA

[15 marks]  
[15 markah]

## QUESTION 2

## SOALAN 2

CLO1  
C2

(a) Explain briefly the purpose of transport documentation below;

*Terangkan secara ringkas fungsi dokumen pengangkutan berikut;*

- i. bill of lading  
*bil muatan*
- ii. air bill  
*bil udara*
- iii. shipping notes  
*nota kapal*
- iv. weight notes  
*nota berat*

[10 marks]  
[10 markah]

CLO1  
C3

(b) Domestic trade require the exchange and distribution of goods and services made for local consumption. Interpret the functions of the components in domestic trade below;

*Perdagangan domestik memerlukan pertukaran dan pengagihan barangan dan perkhidmatan yang dijalankan untuk tujuan kegunaan tempatan. Jelaskan secara terperinci fungsi komponen perdagangan domestik yang berikut;*

- i. loggers  
*pembalak*
- ii. log traders  
*penjual balak*
- iii. carriage operator  
*operator pengangkutan*
- iv. manufacturer  
*pengilang*

[15 marks]  
[15 markah]

## QUESTION 3

## SOALAN 3

CLO1  
C2

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

*Kategorikan LIMA (5) peringkat dan LIMA (5) tanda peringkat untuk kayu beruti.*

[10 marks]

[10 markah]

CLO1  
C3

- (b) Determine the grade of a piece of wood with 10" width and 16' length and it contains the following defects:

*Tentukan gred sekeping papan yang berukuran 10" lebar dan 16' panjang yang mengandungi cacat-cacat berikut:*

i)	10" x 7' 6"	ii)	5" x 6' 6"
		iii)	5" x 8'

i) end splits    ii) knot    iii) knot

*pecah hujung    buku    buku*

[15 marks]

[15 markah]

## QUESTION 4

## SOALAN 4

CLO1  
C2

(a) Identify FIVE (5) export and FIVE (5) import of timber products in Malaysia.

*Kenalpasti LIMA (5) eksport dan LIMA (5) import produk kayu dalam Malaysia.*

[10 marks]

[10 markah]

CLO1  
C3

(b) Timber industry is now confronting with numerous issues and challenges to sustain their competitive advantage in the current new economy that is extensively driven by innovation and technological capabilities. Elaborate the current issues of world's wood industry.

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

[15 marks]

[15 markah]

SOALAN TAMAT

GRADE	(I) PRIME	(II) SELECT	(III) STANDARD	(V) SERVICEABLE
h) Cutting Requirements	*Surface area 3 to < 5 100% (12/12) 5 to < 8 91 2/3% (11/12) 8 to < 11 83 1/3% (10/12) or 91 2/3% (11/12) 11 to < 14 83 1/3% (10/12) or 91 2/3% (11/12) 14 & up 83 1/3% (10/12) or 91 2/3% (11/12) minimum size of cuttings: 4" x 5" or 5' x 4'	*Surface area 2.5 to < 3 100% (12/12) 3 to < 5 75% (9/12) 5 to < 8 75% (9/12) 8 to < 11 75% (9/12) 11 to < 14 75% (9/12) 14 & up 75% (9/12) minimum size of cuttings: 4" x 3" or 3" x 4'	*Surface area 2.5 to < 5 66 2/3% (8/12) 5 to < 8 66 2/3% (8/12) 8 to < 11 66 2/3% (8/12) 11 to < 14 66 2/3% (8/12) 14 & up 66 2/3% (8/12) (CFC includes bright sapwood) minimum size of cuttings: 3" x 3" or 4" x 2'	*Surface area 2.5 to < 5 66 2/3% (8/12) 5 to < 8 66 2/3% (8/12) 8 to < 11 66 2/3% (8/12) 11 to < 14 66 2/3% (8/12) 14 & up 66 2/3% (8/12) (SFC admits brittle heart) minimum size of cuttings: 3" x 3" or 4" x 2'
i) Grading Requirements	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	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	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	Admits piece that yields the required percent of SFCs, the portion outside will admit splits as in item 4.6 page 16, ware, brittle heart as in Table above and any SDs not materially affecting the strength of the piece
IV. SOUND (or BHD - 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 ware 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				