

SULIT



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

JABATAN KEJURUTERAAN AWAM

PEPERIKSAAN AKHIR

SESI JUN 2019

DCW2082: TIMBER TRADE

TARIKH : 31 OKTOBER 2019

MASA : 2.30 PETANG - 4.30 PETANG (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
C1

- (a) Define the terms trade and market.

Takrifkan terma perdagangan dan pasaran.

[5 marks]
[5 markah]

CLO1
C3

- (b) There are agencies which provide tools and methodology to assist in the trading process. Interpret the roles of the supporting agencies below in timber industry:

Terdapat agensi-agensi yang menyediakan alat dan kaedah dalam membantu proses perdagangan. Tafsirkan peranan agensi sokongan berikut dalam industri kayu:

- i. Bank
Bank
- ii. Insurance
Perlindungan
- iii. Warehouse
Gudang

[10 marks]
[10 markah]

CLO1
C3

- (c) Domestic trade referring to the exchange of domestic goods within the boundaries of a country. Interpret **FIVE (5)** components of domestic trade.

*Perdagangan tempatan merujuk kepada pertukaran barangan tempatan dalam sempadan negara. Tafsirkan **LIMA (5)** komponen perdagangan tempatan.*

[10 marks]
[10 markah]

QUESTION 2**SOALAN 2**CLO1
C1

(a) State **FIVE (5)** industrial resource-based manufacturing sectors in the Third Industrial Master Plan (IMP3) by the Malaysian Government.

*Nyatakan **LIMA (5)** sektor pembuatan industri berasaskan sumber dalam Pelan Induk Perindustrian Ketiga (PIP3) oleh Kerajaan Malaysia.*

[5 marks]
[5 markah]

CLO1
C2

(b) Identify **FOUR (4)** business documentations and **SIX (6)** transportation documentations of the import export trading.

*Kenalpasti **EMPAT (4)** dokumentasi perniagaan dan **ENAM (6)** dokumentasi pengangkutan yang terdapat dalam perdagangan import eksport.*

[10 marks]
[10 markah]

CLO1
C3

(c) List the function for each equipment for timber grading listed below:

Senaraikan fungsi bagi setiap peralatan yang digunakan oleh pengredan kayu seperti disenaraikan di bawah:

- 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 MGR
Senaskah buku MGR

[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) The supply of raw materials is an issue which has an important bearing on the general health of the timber industry.

Bekalan bahan mentah merupakan satu isu yang mempunyai kesan penting terhadap nadi industri perkayuan secara umumnya.

- i. Identify the resources of raw materials recommended for future structure of the timber industry in Malaysia according to NATIP in 2020.

Kenalpasti sumber bahan mentah untuk struktur masa depan yang disyorkan bagi industri perkayuan di Malaysia merujuk kepada NATIP pada tahun 2020.

- ii. Identify the secondary processed wood products recommended for future structure of the timber industry according to NATIP in 2020.

Kenalpasti produk kayu pemprosesan sekunder untuk struktur masa depan yang disyorkan bagi industri perkayuan di Malaysia merujuk kepada NATIP pada tahun 2020.

[10 marks]
[10 markah]

CLO1
C3

(b) There are agencies which are directly involved in the wood based industry in Malaysia. List the functions of the following agencies:

Terdapat agensi-agensi yang terlibat secara langsung dalam industri perkayuan di Malaysia. Senaraikan fungsi – fungsi agensi berikut:

- i. Sabah Forestry Development Authority
Lembaga Kemajuan Perhutanan Negeri Sabah
- ii. Malaysia Timber Industry Board
Lembaga Perindustrian Kayu Malaysia
- iii. Forest Research Institute Malaysia
Institut Penyelidikan Perhutanan Malaysia
- iv. Malaysian Timber Council
Majlis Kayu Kayan Malaysia
- v. Malaysian Timber Certification Council
Majlis Pensijilan Kayu Malaysia

[15 marks]
[15 markah]

QUESTION 2**SOALAN 2**CLO1
C2

(a) Briefly explain the components of international trade below:

Terangkan secara ringkas komponen dalam perdagangan antarabangsa yang berikut:

- i. Exporter
Pengeksport
- ii. Importer
Pengimport
- iii. Consumer
Pengguna
- iv. Dealer
Pengedar

[10 marks]

[10 markah]

CLO1
C3

(b) The procedures of import and export differ from country to country, depending on the import policy, the statutory requirement and customs of different countries and it is controlled by the government. List down the import and export procedures.

Prosedur import dan eksport berbeza di antara negara-negara, bergantung kepada dasar import, keperluan akta dan kastam dari negara-negara yang berlainan dan ia dikawal oleh kerajaan. Senaraikan prosedur import dan eksport.

[15 marks]

[15 markah]

QUESTION 3**SOALAN 3**CLO1
C2

(a) Describe the wood grading procedure of the cutting system.

Huraikan tatacara pemeringkatan kayu di bawah sistem potongan.

[10 marks]

[10 markah]

CLO1
C3

(b) Calculate the clear face cutting and grade of a piece of wood with a 9" width and 16' length with the following defects. Refer Appendix A.

Kirakan jumlah potongan muka bersih dan peringkatkan 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

[15 marks]

[15 markah]

QUESTION 4**SOALAN 4**CLO1
C2

(a) Identify the following timber product export of Malaysia:

Kenalpasti eksport produk kayu dari Malaysia yang berikut:

- i. **FIVE (5)** major timber products export

LIMA (5) eksport utama produk kayu

- ii. **FIVE (5)** major destinations of timber products export

LIMA (5) destinasi utama eksport bagi produk kayu

[10 marks]
[10 markah]

CLO1
C3

(b) Interpret the following timber product certification:

Tafsirkan pensijilan produk kayu yang berikut:

- i. Malaysian Standard (MS)

Standard Malaysia

- ii. Malaysian Timber Certification Scheme (MTCS)

Skim Pensijilan Kayu Malaysia

- iii. British Standard (BS)

Standard British

- iv. Japanese Industrial Standard (JIS)

Standard Perindustrian Jepun

- v. Japanese Agriculture Standard (JAS)

Standard Pertanian Jepun

[15 marks]
[15 markah]

SOALAN TAMAT

GRADE	(I) PRIME	(II) SELECT	(III) STANDARD	(V) SERVICEABLE																																																																							
h) Cutting Requirements	<p>*Surface area</p> <table border="1"> <tr><td>3 to <5</td><td>100% (12/12)</td><td>No. of CFC</td><td>1</td></tr> <tr><td>5 to <8</td><td>91 2/3% (11/12)</td><td>1</td><td>1</td></tr> <tr><td>8 to <11</td><td>83 1/3% (10/12)</td><td>1</td><td>1</td></tr> <tr><td></td><td>or 91 2/3% (11/12)</td><td>2</td><td>2</td></tr> <tr><td>11 to <14</td><td>83 1/3% (10/12)</td><td>2</td><td>2</td></tr> <tr><td></td><td>or 91 2/3% (11/12)</td><td>3</td><td>3</td></tr> <tr><td>14 & up</td><td>83 1/3% (10/12)</td><td>3</td><td>3</td></tr> <tr><td></td><td>or 91 2/3% (11/12)</td><td>4</td><td>4</td></tr> </table> <p>minimum size of cuttings: 4" x 5" or 5" x 4"</p>	3 to <5	100% (12/12)	No. of CFC	1	5 to <8	91 2/3% (11/12)	1	1	8 to <11	83 1/3% (10/12)	1	1		or 91 2/3% (11/12)	2	2	11 to <14	83 1/3% (10/12)	2	2		or 91 2/3% (11/12)	3	3	14 & up	83 1/3% (10/12)	3	3		or 91 2/3% (11/12)	4	4	<p>*Surface area</p> <table border="1"> <tr><td>2.5 to <5</td><td>66 2/3% (8/12)</td><td>No. of CFC</td><td>1</td></tr> <tr><td>5 to <8</td><td>66 2/3% (8/12)</td><td>2</td><td>2</td></tr> <tr><td>8 to <11</td><td>66 2/3% (8/12)</td><td>3</td><td>3</td></tr> <tr><td>11 to <14</td><td>66 2/3% (8/12)</td><td>4</td><td>4</td></tr> <tr><td>14 & up</td><td>66 2/3% (8/12)</td><td>5</td><td>5</td></tr> </table> <p>(CFC includes bright sapwood)</p> <p>minimum size of cuttings: 3" x 3' or 4" x 2'</p>	2.5 to <5	66 2/3% (8/12)	No. of CFC	1	5 to <8	66 2/3% (8/12)	2	2	8 to <11	66 2/3% (8/12)	3	3	11 to <14	66 2/3% (8/12)	4	4	14 & up	66 2/3% (8/12)	5	5	<p>*Surface area</p> <table border="1"> <tr><td>2.5 to <5</td><td>66 2/3% (8/12)</td><td>No. of SFC</td><td>1</td></tr> <tr><td>5 to <8</td><td>66 2/3% (8/12)</td><td>2</td><td>2</td></tr> <tr><td>8 to <11</td><td>66 2/3% (8/12)</td><td>3</td><td>3</td></tr> <tr><td>11 to <14</td><td>66 2/3% (8/12)</td><td>4</td><td>4</td></tr> <tr><td>14 & up</td><td>66 2/3% (8/12)</td><td>5</td><td>5</td></tr> </table> <p>(SFC admits brittle heart)</p> <p>minimum size of cuttings: 3" x 3' or 4" x 2'</p>	2.5 to <5	66 2/3% (8/12)	No. of SFC	1	5 to <8	66 2/3% (8/12)	2	2	8 to <11	66 2/3% (8/12)	3	3	11 to <14	66 2/3% (8/12)	4	4	14 & up	66 2/3% (8/12)	5	5
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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>																																																																											