

SULIT



**KEMENTERIAN PENDIDIKAN TINGGI
JABATAN PENDIDIKAN POLITEKNIK DAN KOLEJ KOMUNITI**

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

JABATAN TEKNOLOGI MAKLUMAT DAN KOMUNIKASI

PEPERIKSAAN AKHIR

SESI II : 2023/2024

DFC40243 : SYSTEM ANALYSIS AND DESIGN

TARIKH : 11 JUN 2024

MASA : 8.30 PAGI - 10.30 PAGI (2 JAM)

Kertas ini mengandungi **TIGA PULUH LIMA (35)** halaman bercetak.

Bahagian A: Objektif (30 soalan)

Bahagian B: Struktur (2 soalan)

Dokumen sokongan yang disertakan : Tiada

JANGAN BUKA KERTAS SOALAN INI SEHINGGA DIARAHKAN

(CLO yang tertera hanya sebagai rujukan)

SULIT

SECTION B : 55 MARKS***BAHAGIAN B : 55 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) i. Explain **FOUR (4)** information system components.
Terangkan EMPAT (4) komponen sistem maklumat.
- [8 marks]
[8 markah]
- CLO1 ii. Differentiate between Agile Model and Waterfall Model.
Bezakan diantara Agile model dan Model Airterjun.
- [4 marks]
[4 markah]

CLO1

- (b) i. Based on Table 1.0, transform all the activities to Functional Decomposition Diagram.

Berdasarkan Jadual 1.0, tukarkan semua aktiviti kepada "Functional Decomposition Diagram".

Table 1.0 / *Jadual 1.0*

1.0 Hello World System	
	1.1 Initiation 1.1.1 Develop business case 1.1.2 Assign project manager 1.1.3 Develop project charter
	1.2 Planning 1.2.1 Perform primary planning 1.2.1.1 Develop WBS 1.2.1.2 Plan schedule 1.2.1.3 Plan resource
	1.3 Execution and Control 1.3.1 Manage communications 1.3.2 Manage procurement 1.3.3 Track and manage tasks 1.3.4 Execute project tasks
	1.4 Closeout 1.4.1 Document closeout 1.4.2 Transfer project

[6 marks]

[6 markah]

CLO1

- ii. Based on Table 2.0, transform the information given into Gantt Chart
Berdasarkan Jadual 2.0, tukar maklumat yang diberi kepada Carta Gantt.

Table 2.0 / *Jadual 2.0*

Phase	Time to complete
Planning	2 weeks
Requirement analysis	2 weeks
Designing	8 weeks
Testing	2 weeks

[4 marks]

[4 markah]

CLO1

- (c) Sketch a Data Flow Diagram (DFD) level 0 (Context Diagram) using **Yourdon Notation** for a Food Ordering System with at least **THREE (3)** external entities including Customer, Kitchen, Restaurant Manager and **FOUR (4)** data flow with correct symbols and labels.

Lakarkan Rajah Aliran Data (DFD) tahap 0 (Rajah Konteks) menggunakan Notasi Yourdon untuk Sistem Pesanan Makanan dengan sekurang-kurangnya TIGA (3) entiti luaran termasuk Pelanggan, Dapur, Pengurus Restoran dan EMPAT (4) aliran data dengan simbol dan label yang betul.

[8 marks]

[8 markah]

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A^{DF} → [First Name] [Last Name] [E-mail *] (ex: myname@example.com)

B^{DF} → [Room Type] [Number of Guests *] (e.g., 23)

C^{DF} → [Arrival Date & Time *] (04-17-2020, 11:33 AM)

[Departure Date *] (Please select a month, Please select a day, Please select a year)

D^{DF} → [Free Pickup? *] (Yes Please! - Pick me up on arrival, No Thanks - I'll make my own way there)

E^{DF} → [Special Requests]

F^{DF} → [I agree to the terms and conditions]

G^{DF} → [Submit]

Figure B2 b(ii) / Rajah B2 b(ii)

[7 marks]

[7 markah]

CLO1

- (c) Explain **THREE (3)** types of maintenance.
*Terangkan **TIGA (3)** jenis penyelenggaraan.*

[6 marks]

[6 markah]

SOALAN TAMAT