

SECTION B: 70 MARKS
BAHAGIAN B: 70 MARKAH

INSTRUCTION:

This section consists of **THREE (3)** structured questions. Answer **ALL** questions.

ARAHAN:

*Bahagian ini mengandungi **TIGA (3)** soalan berstruktur. Jawab semua soalan.*

QUESTION 1

SOALAN 1

- | | | |
|------------|---|---------------------------------|
| CLO1
C1 | <p>(a) Name TWO (2) major components in a business intelligence system.
 <i>Namakan DUA (2) komponen utama dalam sistem kecerdasan perniagaan</i></p> | <p>[2 marks]
[2 markah]</p> |
| CLO1
C2 | <p>(b) Explain THREE (3) benefits of Business Intelligence to organization.
 <i>Terangkan TIGA (3) kelebihan kecerdasan perniagaan kepada organisasi.</i></p> | <p>[3 marks]
[3 markah]</p> |
| CLO1
C1 | <p>(c) List TWO (2) types of Decision Support System (DSS).
 <i>Senaraikan DUA (2) jenis Sistem Sokongan Keputusan (DSS).</i></p> | <p>[2 marks]
[2 markah]</p> |
| CLO1
C2 | <p>(d) Differentiate between OLAP and data warehouse
 <i>Bezakan antara OLAP dan gudang data</i></p> | <p>[4 marks]
[4 markah]</p> |
| CLO1
C2 | <p>(e) Describe TWO (2) functions of data warehouse.
 <i>Huraikan DUA (2) fungsi gudang data.</i></p> | <p>[4 marks]
[4 markah]</p> |

- CLO1
C2
- (f) Explain about data cleansing.
Terangkan mengenai pembersihan data.
- [2 marks]
[2 markah]
- CLO1
C3
- (g) Sketch ETL (Extract, Transform, Load) process in data warehouse.
Lakarkan proses ETL (Extract, Transform, Load) dalam gudang data.
- [6 marks]
[6 markah]
- CLO1
C3
- (h) Illustrate 2-tier architecture in data warehouse.
Illustrasikan 2-tier architecture di dalam gudang data.
- [2 marks]
[2 markah]

QUESTION 2**SOALAN 2**CLO1
C1

- (a) State the definition of OLAP.
Nyatakan definisi OLAP.

[2 mark]

[2 markah]

CLO1
C2

- (b) Explain **TWO (2)** advantages of an OLTP system.
Terangkan DUA (2) kelebihan sistem OLTP.

[4 marks]

[4 markah]

CLO1
C2

- (c) Discuss **THREE (3)** challenges of an OLTP system.
Bincangkan TIGA (3) cabaran sistem OLTP.

[6 mark]

[6 markah]

CLO1
C2

- (d) Explain **TWO (2)** types of Online Analytical Processing (OLAP) Architecture.
Terangkan DUA (2) jenis seni bina Proses Analisis Atas Talian (OLAP).

[4 marks]

[4 markah]

CLO1
C2

- (e) Differentiate between Multidimensional Online Analytical Processing (MOLAP) and Relational Online Analytical Processing (ROLAP) in OLAP architecture.

Berikan perbezaan antara multidimensional online analytical processing (MOLAP) dan Relational Online Analytical Processing (ROLAP) pada OLAP architecture

[4 marks]

[4 markah]

CLO1
C3

- (f) You work as a data analysis manager at an airlines company. Explain how multidimensional data could support the Online Analytical Processing (OLAP) operations in the company with an example.

Anda bekerja sebagai pengurus analisis data di sebuah syarikat penerbangan. Terangkan bagaimana data dimensi pelbagai dapat menyokong Operasi Pemprosesan Analitikal atas talian (OLAP) di syarikat beserta contoh.

[5 marks]

[5 markah]

QUESTION 3**SOALAN 3**CLO1
C1

- (a) State **THREE (3)** types of dashboard.
*Nyatakan **TIGA (3)** jenis papan pemuka*

[3 marks]

[3 markah]

CLO1
C2

- (b) Explain **ONE (1)** advantage of dashboard in report and presentation.
*Terangkan **SATU (1)** kelebihan papan pemuka dalam laporan dan pembentangan.*

[2 marks]

[2 markah]

CLO1
C2

- (c) Explain dashboard in report and presentation.
Terangkan papan pemuka dalam laporan dan persembahan

[2 marks]

[2 markah]

CLO1
C2

- (d) Differentiate between scorecards and dashboard.
Bezakan antara kad skor dan papan pemuka.

[4 marks]

[4 markah]

CLO1
C2

- (e) Explain **TWO (2)** perspectives in the balanced scorecard.
*Terangkan **DUA (2)** perspektif bagi keseimbangan kad skor.*

[4 marks]

[4 markah]

CLO1
C3

- (f) As an analytics manager in a clothing and fashion retailer company, you need to build a dashboard for your company sales performance. Sketch a design of your enterprise performance dashboard that consists information of types clothing and at least have 3 charts.

Sebagai pengurus analitik di dalam syarikat peruncit dan fesyen pakaian, anda perlu membina papan pemuka prestasi penjualan syarikat anda. Lakar reka bentuk papan pemuka prestasi perniagaan anda yang mengandungi maklumat jenis pakaian dan sekurang-kurangnya mempunyai 3 carta.

[5 marks]

[5 markah]

-END OF THE QUESTION-

-SOALAN TAMAT-