



BIG TEST 1 ★ GROOT TOETS 1

MODULE CODE/KODE	ITRW 213	DURATION/DUUR	1h 40min
EXAMINER/EKSAMINATOR	Imelda Smit	MARKS/PUNTE	50
MODERATOR	Prof Roelien Goede	DATE/DATUM	2015-03-10
		TIME/TYD	17:00

MEMORANDUM

Answer all the questions. ★ Beantwoord al die vrae.

Question 1 | Vraag 1 [Chapter 1| Hoofstuk 1]

[10]

Make use of **a table** and distinguish between **two categories** of **system users**. Include an **example** of each.

Maak gebruik van 'n **tabel** en onderskei tussen **twee stelselgebruikers kategorieë**. Gee 'n **voorbeeld** van elk.

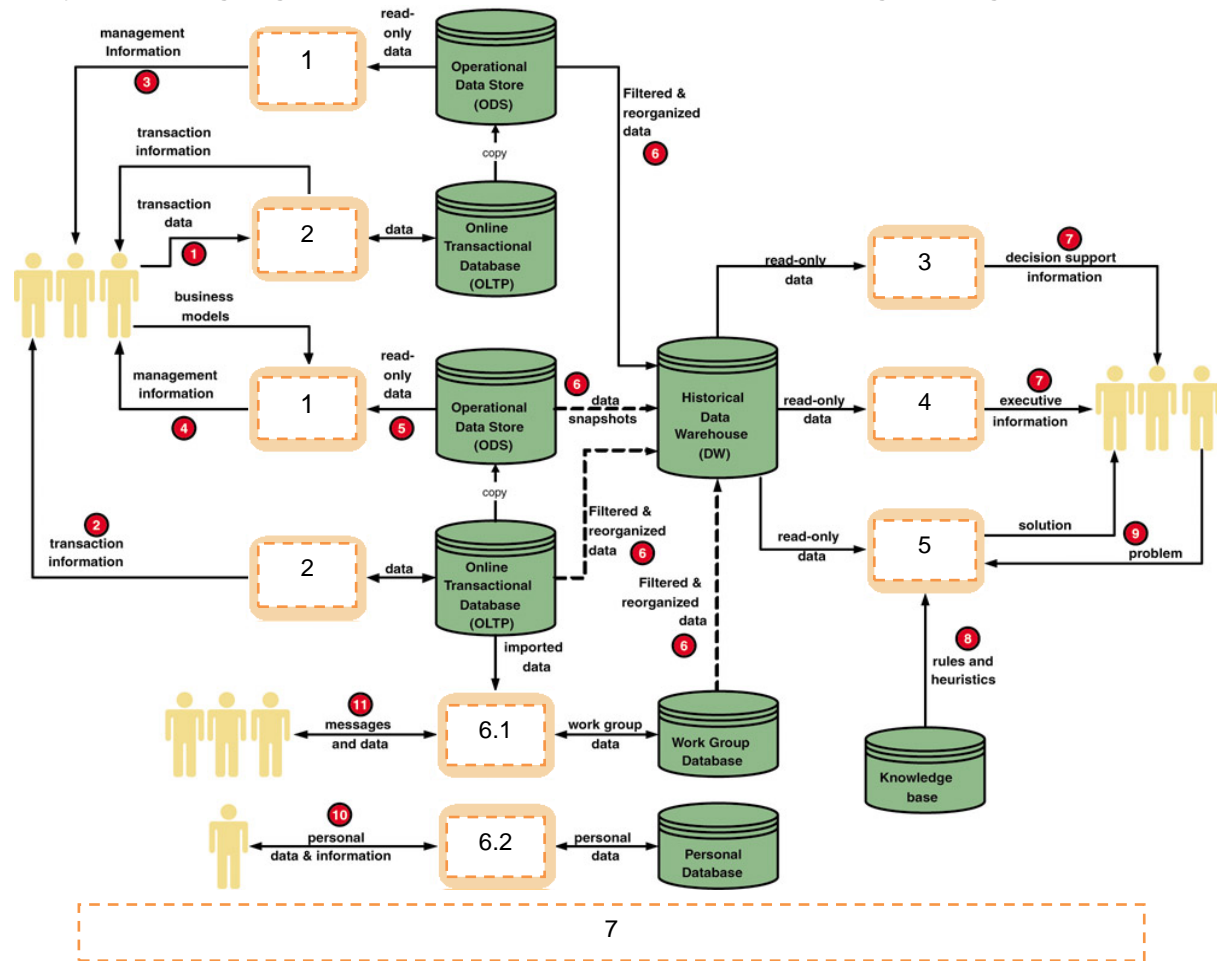
Answer:

Internal System Users ✓	External System Users ✓
• Clerical and Service Workers ✓	• Customers ✓
• Technical and professional staff ✓	• Suppliers ✓
• Supervisors, middle & executive managers ✓	• Partners ✓
Table format - ✓	• Employers ✓

Mark Allocation: See allocated marks

Study the following diagram:

Bestudeer die volgende diagram:



(2.1) You studied 7 types of **Information Systems**, indicate and **name them** on the diagram given.
 (2.2) Explain the **difference** between **Front-office** information systems and **Back-office** information systems.

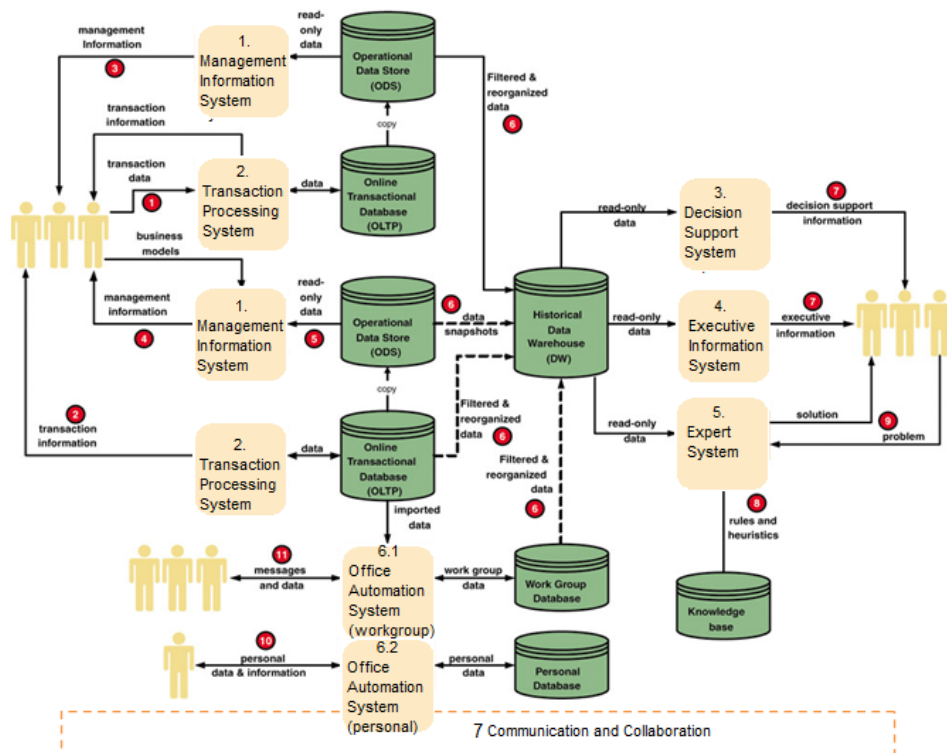
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(2.1) Jy het 7 tipes **Inligtingstelsels** bestudeer, identifiseer en **dui hulle aan** op die gegewe diagram.
 (2.2) Verduidelik die **verskil** tussen **Voorkant** inligtingstelsels en **Agterkant** inligtingstelsels.

Answer: (2.1)

1. MIS – Management Information System ✓
2. TPS – Transaction Processing System ✓
3. DSS – Decision Support System ✓
4. EIS – Executive Information System ✓
5. ES – Expert System ✓
6. OAS – Office Automation System - 6.1 Work group^{1/2}✓, 6.2 Personal^{1/2}✓
7. Communication and Collaboration ✓

Must be indicated on diagram (see below).



Mark Allocation: ✓ 1 mark per correct indication on diagram

Answer: (2.2)

Front-Office = an information system $\frac{1}{2}$ ✓ that supports business functions $\frac{1}{2}$ ✓ that extend out to the organizations customers $\frac{1}{2}$ ✓

Back-Office = an information system $\frac{1}{2}$ ✓ that supports internal business operations $\frac{1}{2}$ ✓ of an organization, as well as reaches out to suppliers $\frac{1}{2}$ ✓

Mark Allocation: See marks allocated

(3.1) Make a drawing that illustrates the lifetime of a system clearly.

(3.2) Discuss the **PIECES** framework

(3.3) Explain what you understand **CASE-tools** to be. Give an **example** of a CASE-tool.

5

(3.1) Teken n diagram wat die leeftyd van 'n stelsel duidelik illustreer.

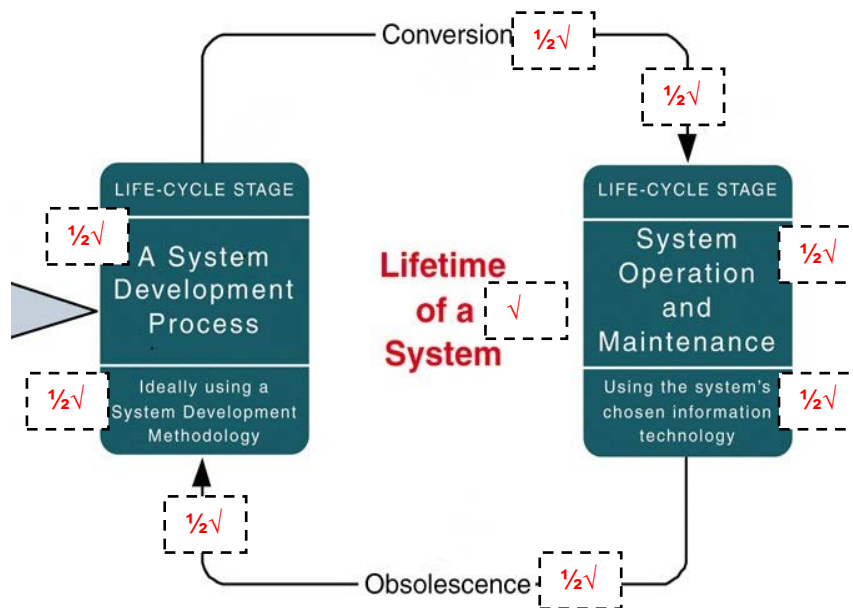
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(3.2) Bespreek die **PIECES** Raamwerk.

2

(3.3) Verduidelik wat jy verstaan onder **CASE – hulpmiddels**. Gee n voorbeeld van 'n CASE-hulpmiddel.

Answer: (3.1)



Mark Allocation: See marks allocated

Answer: (3.2)

P – need to correct/improve performance / werksverrigting 1/2✓

I – need to correct/improve information / inligting 1/2✓

E – need to correct/improve economics / ekonomie 1/2✓

C – need to correct/improve control or security / sekuriteit of beheer 1/2✓

E – need to correct/improve efficiency of people and processes / Effektiwiteit 1/2✓

S – need to correct/improve services to customers / Dienste 1/2✓

Mark allocation: See marks allocated

Answer: (3.3)

Use of automated software tools that supports the drawing and analysis of system models and associated specifications ✓ + example (UML design tool, Visual Paradigm, IDE, Method-Specific, Rational) ✓

Mark allocation: See marks allocated

Between $\frac{1}{2}\checkmark$ C, G, I = 2 days \checkmark

Mark Allocation = See allocated marks

Question 5 | Vraag 5 [Chapter 5 | Hoofstuk 5]

[5]

List and shortly explain the **steps/phases** of system analysis.

Lys en beskryf die **stappe/fases** van stelselontleding kortliks.

Answer:

1. Scope Definition $\frac{1}{2}\checkmark$ – answers the question “Is the project worth looking at?” $\frac{1}{2}\checkmark$
2. Problem Analysis $\frac{1}{2}\checkmark$ – provides analysts with thorough understanding of the problems, opportunities and directives $\frac{1}{2}\checkmark$
3. Requirements Analysis $\frac{1}{2}\checkmark$ – defines business requirements for the new system $\frac{1}{2}\checkmark$
4. Logical Design $\frac{1}{2}\checkmark$ – further documents business requirements using system modelling $\frac{1}{2}\checkmark$
5. Decision Analysis $\frac{1}{2}\checkmark$ – identify candidate solutions, analyze those solutions and recommend a target system $\frac{1}{2}\checkmark$

Mark Allocation: See allocated marks