NORTH-WEST UNIVERSITY
YUNIBESITI YA BOKONE-BOPHIRIMA
NOORDWES-UNIVERSITEIT
VAAL TRIANGLE CAMPUS

BIG TEST ★ 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	**11-03-2014**
		TIME/TYD	**17:00**

MEMORANDUM

Answer all the questions. ★ Beantwoord al die vrae.

Question | Vraag 1 [Chapter | Hoofstuk 1] [5]

The following are examples of stakeholders of Pick n Pay's system. Can you identify which role category each belongs to? Be specific in your answer.

Buyers	a)	Kopers
Security company	b)	Sekuriteitsmaatskappy
Web master	c)	Web-meester
Chief Executive Officer (CEO)	d)	Hoof-Uitvoerende Beampte (HUB)
Admin staff	e)	Administratiewe personeel

Die volgende is voorbeelde van Pick n Pay se stelsel se belanghebbendes. Kan jy identifiseer aan watter rolkategorie elkeen behoort? Wees spesifiek in jou antwoord.

Answer: p7-16 Applied to an example
a) Buyers ~ External system users ½√ (customers) ½√
b) Security company ~ System designer ½√ (security expert) ½√ | System builders ½√ (security administrators) ½√ (any one)
c) Web master ~ Systems builder ½√ (code and maintain web) ½√
d) Chief Executive Officer ~ System owner √
e) Admin staff ~ Internal system users ½√ (clerical and service workers) ½√

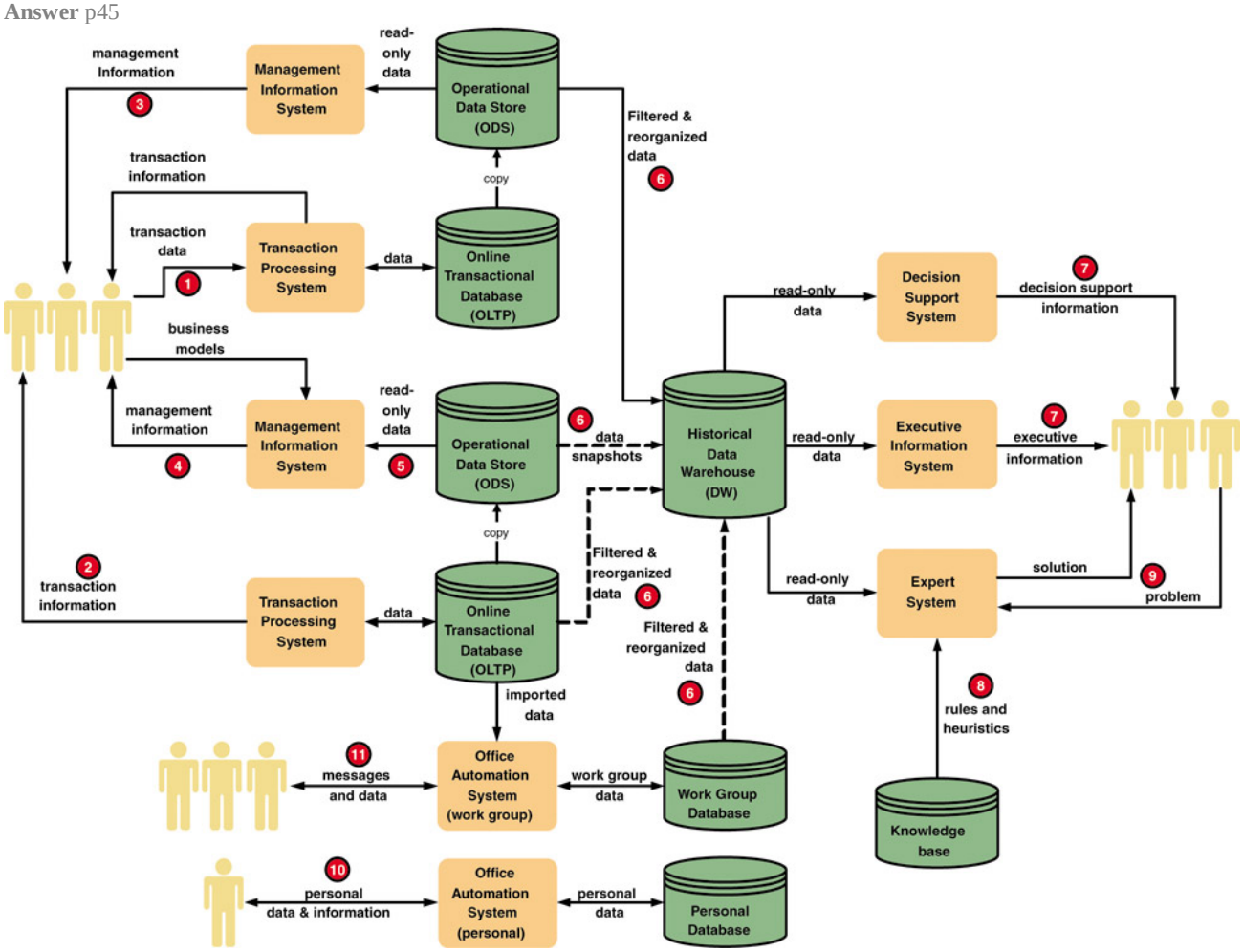
Mark allocation: See allocated marks.
Example: Only half a mark if only customer (and not external system user) is mentioned – and visa versa.

Question | Vraag 2 [Chapter | Hoofstuk 2] [10]

Draw a representation of the seven different types of information systems in the Pick n Pay system case study.

Teken 'n voorstelling van die sewe verskillende tipes inligtingstelsels in die Pick n Pay stelsel se gevallestudie.

Answer p45



① Transaction Processing System ½✓ with live ½✓ transaction information to users ② ½✓
⑤ Read-only ½✓ ③ Management Information ½✓ from the ④ Management Information System ½✓ taking data snapshots ½✓ ⑥ filtered from ½✓ the data warehouse ½✓
⑦ Decision Support System ½✓, Executive Information System ½✓ supplying read only information to users and ⑧ Expert System ½✓ supplying knowledge via rules and heuristics ½✓ from a knowledge base ½✓ regarding specific problems ⑨ – all read only ½✓
⑩+ Office Automation System support personal work ½✓(data & information gets sent ½✓) and group work ½✓ by using a communication and Collaboration System ½✓ in the form of messages ½✓– live data ½✓
More marks may be given for relevant answers.

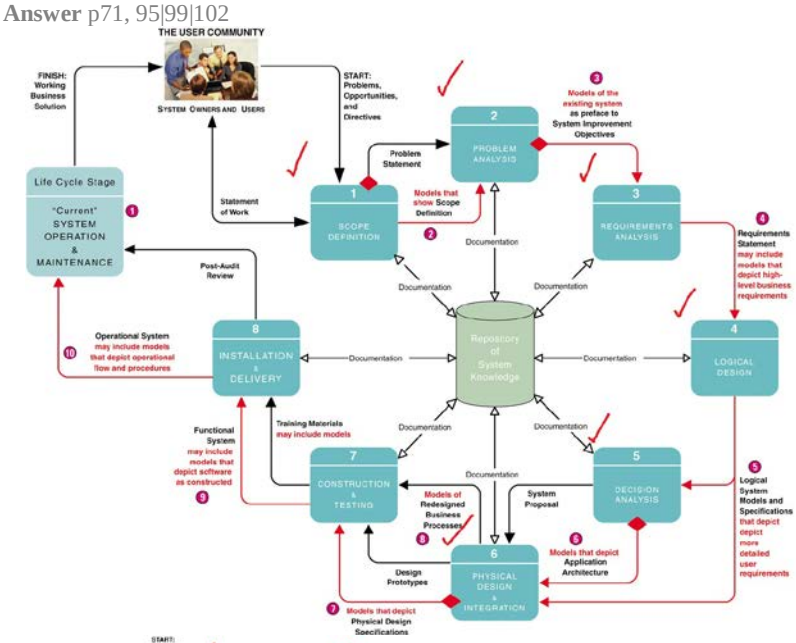
Mark allocation: A max of 10 marks may be allocated.

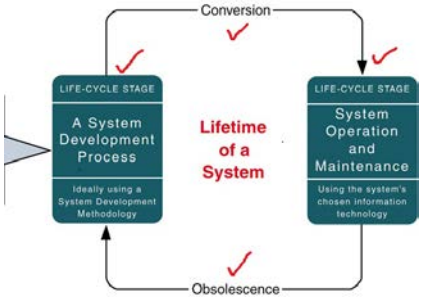
Question | Vraag 3 [Chapter | Hoofstuk 3] [10]

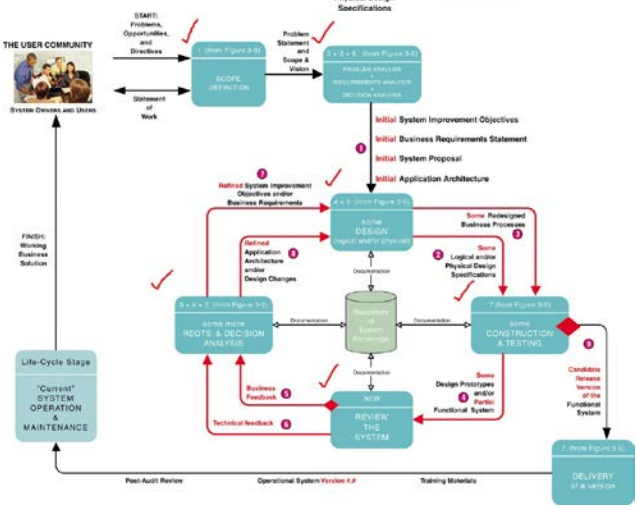
Draw a picture to illustrate the difference between the system life cycle and a systems development methodology. It should also represent a lifetime of a system. You may use any methodology in your answer.

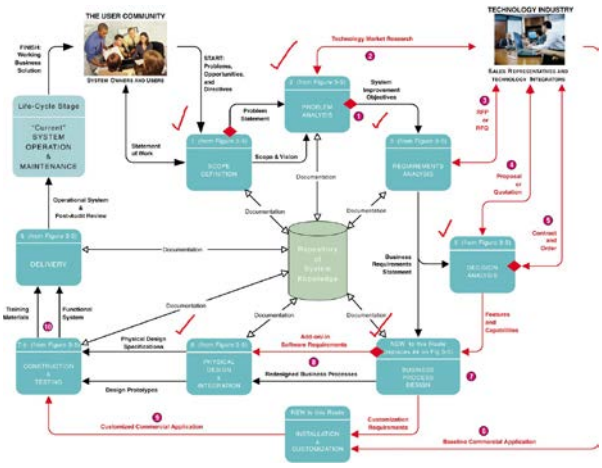
Teken 'n prentjie om die verskil tussen die stelsellewensiklus en 'n stelselonwikkelingsmetodologie te illustreer. Dit behoort ook die lewenstyd van 'n stelsel voor te stel. Jy mag enige metodologie in jou antwoord gebruik.

Answer p71, 95|99|102









Mark allocation: See allocated marks. A maximum of 6 marks can be earned for the selected systems development life cycle. A more simplified version of the systems life cycle (eg as shown in chapter 1) may also be used.

Question | Vraag 4 [Chapter | Hoofstuk 4] [15]

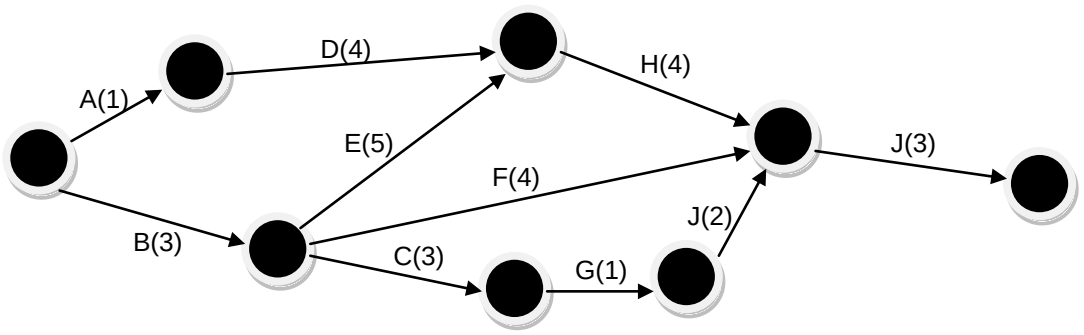
Study project X, with the following tasks (activities), its predecessors and duration:

Bestudeer projek X, met die volgende take (aktiwiteite), hul voorgangers en duur:

Tasks/Take	Duration (day)/Duur (dag)	Predecessors/Voorgangers
A	1	None / Geen
B	3	None / Geen
C	3	B
D	4	A
E	5	B
F	4	B
G	1	C
H	4	D, E
I	2	G
J	3	F, H, I

1.1 Draw an activity-on-arrow network diagram for project X.	5	1.1 Teken 'n aktiwiteit-op-pyl netwerk diagram vir projek X.
1.2 Indicate all the paths on the network diagram.	4	1.2 Dui al die paaie op die netwerkdiagram aan.
1.3 Which one is the critical path? Why?	2	1.3 Watter een is die kritiese pad? Hoekom?
1.4 Which tasks have slack time? How much slack?	4	1.4 Watter take het tydspeling? Hoeveel speling?

Answer: Refer p125-128, 143-149



1.1 ½√ per arrow, max 5
1.2 A-D-H-J --> 12 days √
B-E-H-J --> 15 days √
B-F-J --> 10 days √
B-C-G-I-J --> 12 days √
1.3 B-E-H-J --> 15 days √ the longest path √
1.4 Between ½√ A, D --> 3 days √ Between ½√ C, G, I --> 3 days √ F --> 5 days √

Mark allocation: See allocated marks.

Question | Vraag 5 [Chapter | Hoofstuk 5] [10]

Supply the systems analysis phases and indicate in which phases of systems analysis the following cross life cycle activities will be used: Fact-finding, Documentation and Presentation, Feasibility Analysis, Process and Project Management. Use a table to present your answer.

Verskaf die stelselontledingfases en dui aan in watter fases van stelselontleding die volgende kruislewensiklusaktiwiteite gebruik sal word: Feite-vind, Dokumentasie en Voorstelling, Lewensvatbaarheidsontleding, Proses- en Projekbestuur. Gebruik 'n tabel om jou antwoord voor te stel.

Answer: Refer chapter 5 p160-205

SA Phase ➲ Cross Life Cycle Activity ⬇	Scope definition ✓	Problem Analysis ✓	Requirement analysis ✓	Logical design ✓	Decision analysis ✓
Fact-finding	X ½✓	(-½✓)	(-½✓)	(-½✓)	X ½✓
Documentation and Presentation	X ½✓	X ½✓	X ½✓	X ½✓	X ½✓
Feasibility Analysis	X ½✓	X ½✓	X ½✓	X ½✓	X ½✓
Process and Project Management	X ½✓	X ½✓	X ½✓	X ½✓	X ½✓

Mark allocation: See allocated marks.
SA Phases 5 marks; X's a max of 5 marks.