## **Final Exam for**

## **Software ReEngineering**

## in the Summer Semester of 2014

Student:	<b>Points:</b>
Student Number:	<b>Grade:</b>
1. What was the original goal of software reengineering	
2. What is technical debt? Give a brief explanation.	

3. How does technical debt accumulate?	
4.) Why is it necessary to reverse engineer, i.e. redocument software system before starting to redevelop it?	t, an existing
5. What should come out of a reverse engineering project, vresults? Name five.	what are the
1)	
2)	
3)	
4)	
5)	

6.) Wl	hat is meant by traceability in a software system?
7.) WI	hat is the difference between reverse engineering and reengineering?
8.) WI	hat is meant by Program-Downsizing?
30) 112	-wo is into which with a sign
9.) Wl	hat are the three approaches to Program-Downsizing?
1)	
2)	
3)	

10.) Wh	at are the steps to reengineering a procedural program? Name five.
1)	
3)	
5)	
11.) Wh	y is reengineering a prerequisite to software migration?
	at are the techniques used in refactoring object-oriented programs? t least four.
1)	·
2)	
3)	
4)	
5)	
6)	
13.) Wh	at are the steps to reengineering a Java source? Name five.
1)	
2)	
3)	
/	

<b>14.</b> ) What is m	eant by code fl	attening and	why is it done?	
15.) What are	the four object	ives of data	reverse engineeri	ing?
1)				
2)				
3)				
4)				
16.) What is th	e reason for w	rapping lega	cy software?	

four?	tne types of so	ottware objec	cts that can	oe wrapped?	Name
1)					
2)					
3)					
4)					
18.) What is th	ne purpose of a	a service-orio	ented archite	ecture (SOA)	)?
19.) Why is it the business lo	_	_	ne user miter	race process.	ing iroin
20.) Why is it business logic	so important t and presentat			ss processing	from the

	to a
ects derived from C, COBOL and PLI programs?	
hods taken from a COBOL program?	
yj 	he reasons for converting old procedural programs in ject-oriented language like Java? Name four.  Dijects derived from C, COBOL and PLI programs?  Sethods taken from a COBOL program?

24.) What are the biggest disadvantages to converting legacy software into a modern day programming language? Name four.
1)
2)
3)
4)
25.) What is in your opinion the best way to migrate old software into a new system? Explain why!
1) Redevelop it from scratch because:
2) Re-implement it based on a documentation of the old software because:
3) Wrap it for reuse in the new system because:
4) Convert it to a modern day language because:

Every question is worth 4 points.