

Q3

04

Q5

Q6

Exam Score / 40

Final Score / 25

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/4

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/8

/40

/ 25

Midterm Examination Cover Sheet Second Semester: 1436-1437 / 2015-2016

Course Title:	Software Engineering	Course Code:IT242	
Exam Duration:	60 Minutes	Number of Pages: (including cover page) 6	
	The table below is t	o be filled by the student	
Student Name:		Student ID	
Class Day & Time		CRN:	
Instructor Name:		Exam Date: 9/3/2016	
Mobile phon	es are not permitted.	Guidelines	
	Marki	ng Scheme	
	Questions	Score	
	Q1	/ 10	
NEED TO SEE	Q2	/10	

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managed	sive systems that share a common,
a) Set of problems	Answer: c
b) Set of products	
e) Set of features	
d) Set of lines	
Which of the following did not belong to the production	cess umbrella activities?
a) Software project tracking and control	Answer: d
b) Risk management	
c) Technical reviews	
d) None of the above	
Which of the following is not a software life cyc	le?
a) Spiral model	Answer: b
b) Capability maturity model	
c) Prototype model	
d) Waterfall model	
The team member who is assigned the boundary	y spanning role that crosses the team
boundaries to collect information is called:	
a) Ambassador	Answer: c
b) Sentry	
c) Scout	
d) Coordinator	
Requirement models depict software in which	three domains?
Cultiful House of aspire south	Answer: c
	b) Set of products Set of features d) Set of lines Which of the following did not belong to the product a) Software project tracking and control b) Risk management c) Technical reviews d) None of the above Which of the following is not a software life cycle a) Spiral model b) Capability maturity model c) Prototype model d) Waterfall model The team member who is assigned the boundary boundaries to collect information is called: a) Ambassador b) Sentry c) Scout d) Coordinator

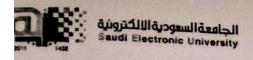
b) Cost, risk, schedule

d) None of the above

c) Information, function, behavior

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6.	The	e last task of the Requirements Engineering process is:	
		Negotiation	
	b)	Validation	Answer: c
	c)	Management	Allower: C
	d)	Specification	
7.	W	nich model in requirements modelling depicts how data are transformed	d inside the
	sys	tem?	
	a)	Scenario-based	
	b)	Class-oriented	Answer: d
	c)	Behavioral	Allower. d
	d)	Flow-oriented	
8.	On	e way to identify analysis classes in requirements modeling is:	
	a)	Ask the customer to define the classes that he/she wants.	
	b)	Perform "Grammatically Parse"	Answer: b
	c)	Approach the project manager for answers	
	d)	Conduct CRC review meetings	
9.	All	of the following are class types except:	
	a)	Dependency classes	
	b)	Entity classes	Answer: a
	c)	Boundary classes	
	d)	Controller classes	
10.	The	is simply the current status of all of an object's att	ributes.
	a)	passive state	
	b)	active state	Answer: a
	c)	event	
	d)	state transition	
			[10 Marks]



Q2: For each of the following statements, answer with $\underline{\text{True}}$ or $\underline{\text{False}}$.

1.	Software is a product and can be manufactured using the same technologies used for other engineering artifacts.	F
2.	A concerted effort should be made to understand the problem before a software solution is developed.	Т
3.	Agile methods seem to work best when team members have a relatively high skill level.	Т
4.	Software engineering team structure is independent of problem difficulty and size of resultant program(s) in lines of code.	F
5.	The design model should be traceable to the requirements model.	T
6.	Non-functional requirements can be safely ignored in modern software development projects.	
7.	A Use-case actor is always a person having a role that different people may play.	
8.	In class based requirement modeling, CRC stands for Cyclic-Redundancy-Check.	
9.	The most basic element in the description of a requirements model is the software pattern.	
10.	Interaction Analysis is the description of the manner in which the user interacts with the WebApp.	_ T

[10 Marks]

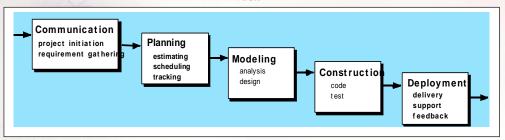


Q3: How do software characteristics differ from hardware characteristics?

Software is developed, not manufactured. Software does not wear out. Most software is custom built, not assembled out of components.

[4 Marks]

Q4: List out the stages of Waterfall Model.



[4 Marks]

Q5: Explain the meaning of software domain analysis?

The identification, analysis, and specification of common requirements, reuse on multiple projects within that application domain

[4 Marks]

Q6: Requirements monitoring encompasses set of tasks. Explain four of these tasks.

- Distributed debugging uncovers errors and determines their cause.
- Run-time verification determines whether software matches its specification.
- Run-time validation assesses whether evolving software meets user goals.
- Business activity monitoring evaluates whether a system satisfies business goals.
- Evolution and codesign provides information to stakeholders as the system evolves.

[8 Marks]

End of the Exam ... Good Luck