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Question 1		
In each of the fol	lowin -	[10 M.
1	lowing, choose the correct answer among a- d.	(TICK ONLY O
more concer	are representation of a system from the per rns which are held by one or more stakeholders	spective of on
	are neid by one or more stakeholders	
b) Viewpoint	ts.	
c) Models.		
d) Concerns.		
2. The concerns		
a) Performance	of logical view are	
b) Functional	Poorui-	
c) Software ma	ana	
d) Understanda	anagement.	
3. Use case view i	in UML corresponds view in Kruchter	
		n's 4+1 views.
b) Physical view		
c) Scenario view		
d) Deployment v	view.	
4. Modules and su view:	bsystems are models used to represent com	ponents in
a) Process View.		
b) Scenario view.		
c) Physical view.		
d) Development v	iew.	
Adaptability quali	ity factor might conflict with	
a) Safety	rey factor might conflict with	
b) Reuse.		
c) Availability.		
The state of the s		
d) Time Performance	ce.	
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1-		

6 can be used to represent large systems characterized with a mix low- and high-level issues, where high-level operations rely on low level issue a) Layers Patterns.
b) Pipes and filter patterns.
c)Repository/blackboard patterns.
d) Proxy patterns.
<ol> <li>If a client issues a request to Layer N in layer pattern since Layer N cannot cout on its own, it calls the next Layer N-1 for supporting subtasks. This Scenis called</li> </ol>
a) Bottom-up notifications
b) Top-down requests
c) requests travel just a subset of layers
d) Event.
8. Compilers are examples forpattern.
a) Layers Patterns.
b) Pipes and filter patterns.
c)Repository/blackboard patterns.
d) Proxy patterns.
9. Patterns should be selected based on
a) The quality factors that they address.
b) The experience of the architect.
c) The concerns of the stakeholders.
d) All the above.
10. Compile-time adaptability can be modeled in design using
a) Part-of.
b) message passing.
c) Inheritance.
d) Inlined code.
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	[10 Mark
Question 2	(F)
Assign which of the following is True (T) and which  1. Adaptability is the ease with which software artif requirements.	facts can be adapted to chan
1. Adaptability is the ease with which	b) (F)
requirements.	requirements.
a) (T)  2. Design alternatives are yield due to Quality (and	functional)
3. Textbooks are the most important knowledge s	ources in domain analysis.
	b) (F)
a)(T)	on between concepts of fea
4. Requires rule defines a mutual exclusion relati	b) (F)
2)(T)	
5. Mandatory features are that features that each	b) (F)
a) (T)	
6. Commonality Analysis is used to filter the dor	nain raw data.
-) (T-)	-, .
	are the statements that id
7. The exhaustive definition of requirements of a system in order for it to	satisfy customer needs.
	b) (F)
a)(T)	older concerns and consis
8. Architectural drivers are defined by stakeho	older concerns and
high-level functional requirements.	b) (F.)
	11 2000331131
a) (T)  9. SA methods can be classified according t	to the source into Single
9. SA methods can be classified Multi-system.	b) (F)
Context Laws what is in	and what is out the s
10. Use-case diagram shows what some consideration and how it interacts with the	ie outside world.
consideration and now it interact	b) (F
a)(T)	

<ul> <li>a) components, relation design and evolution</li> </ul>	nshins among them and	re architecture, it consists of:  b) components, relationships environment.	between them and
c) (a) and (b)		d) None	
a) architecture has more	between Software archite	ecture and Software design is:	orchitecture
	ny views but design has	d) architecture has one view by alternatives	
3. Which of the follow	ing can influence the sof	tware architecture	date and a
) Stakeholders	40	b) Technical Environment	The money with 10.15
Architect's experience	ce	(d) All the previous	The second secon
Architectural Mode	eling can be	is embra a suportion primate or extens	the age of the second second
) Visual UML	b) Textual ADLs	c) (a) and (b)	d) None
	d to model architecture		
) As it is b) Usir	g extension mechanisms	c) Introducing new notations	d) All the previous
Software Product-l	ine Architecture uses	method	
Multi-system design	b) Single-system	m design c) (a) and (b)	d) None
Software Architectu	re design methods can	be classified according to so	ource:
Artifact-driven and Jse case-driven	b) Pattern-driven and Domain-driven	c) (a) and (b)	d) None
The sources of requi	rements are		
Stakeholders	b) domain	c) (a) and (b)	d) None
sability is	10.2	N. V. Labouro	I quality requirements d) None
inctional requiremen	ts b) External quality		I quanty requirement
			me stage, but not necessary in

	on 2	
1	gn which of the following is True (T) and which is False (F).	5 Marks]
1.	A domain includes set of knowledge	
	A domain includes set of knowledge sources from which the various domain concept	pts ( / )
2.	Any set of knowledge sources for	-
	Any set of knowledge sources for a domain can be prioritized.	( )
3.	In ATM, withdrawing and depositing money are optional features.	
4.	Design alternatives are caused by the quality concerns of the stakeholder.	( x )
5.		
	The design alternative that considers the performance uses number of Clarelatively more than the design alternative which considers the adaptability.	asses ( / )
6.		
	In one design, some parts of the system can consider the time performance, other can focus on rouse and selections.	r pats ( / )
	can focus on reuse, and other parts can be adaptable.	
7.	A design alternative can satisfy the availability as well as the safety.	( / )
8.		
	An architecture is organized into only one view of the system.	( X )
9.	Each view addresses only one concern of the stakeholder.	( x
10.	Continuously, a unique pattern is enough to represent the demand requiremen	ts. ( \
11.	Pipes and Filters pattern is fit with a mix of low- and high-level issues, where hi	gh-level ( ⊀
	operations rely on low level issues.	
12. I	n layers pattern, each layer contains only one entity of the system.	( ×
13. R	elaxed Layered pattern improves the maintainability and reduces the performance of the pe	manaa
LJ. I	clased bayered pattern improves the maintainability and reduces the perior	mance. (
4. Pi	pes and Filters pattern consists of sequence of dependent processing steps	. (
5. Se	nsor or camera is a good example for data source in monitoring system tha	t designed (
by	pipes and filters pattern.	
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est concents. (3 marks)
A) Fill in the following with the correct concepts. (3 marks)  Filter represent the architecture
1. In Pipes and Filters pattern, Pipes represent the relations between them.
components and
2. In layers pattern, Layer Entity represent the architecture components.
3. Operating systems are designed using
while compilers are designed using
4. View is a representation of a system from the perspective of one or more
concerns which are held by one or more stakeholders





