BE VIII CMPN (REV)

Software Architecture.

VT-F.H.Exam. April(1)-13-101

Con. 7478-13.

GS-2974

(REVISED COURSE)

(3 Hours)

[Total Marks: 100

- N.B.: (1) Question No. 1 is compulsory.
 - (2) Attempt any four questions from remaining six questions.
 - (3) Assume suitable data wherever necessary.
- What do you mean by architectural degradation? Explain architectural drift and 4 erosion. Define product Line Architecture. (b) Why system based analysis important, if you have already completed component 4 and component level analysis? What is a reference architecture? How does it differ from an ordinary Software 4 Architecture? What is a difference between view and viewpoint? 4 What are different criterias for evaluating implementation framework? 8 8 Explain REST with a diagram. Differentiate Software Architecture and Design. 4 Define following terms: Component Connector (H)(iii) Configuration. Explain 4 + 1 view in UML. What do you mean by stakeholder driven modeling. Differentiate accuracy and precesion. **20** A Lunar Lander game is to be developed with following specifications:-
- 4. A Lunar Lander game is to be developed with following specifications:—
 User input It takes input from pilot as increase/decrease speed which is directly mapped to required burn rate.

Other inputs -Lunar Lander has two sensors

- (i) Current Burn Rate
- (ii) Current altitude.
- Output Based on this 3 inputs determine new burn rate and set different parameters like altitude, velocity etc. and display them.

Draw an architecture using any of two styles:-

- (a) Object Oriented Style
- (b) Role Based Style
- (c) Black Board Style.

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5.	(a)	Explain with example software system mobility and architecture.	10			
	(b)) Explain any two connectors in detail :-				
		(i) Data access connector				
		(ii) Stream connector				
		(iii) Procedure call connector.				
6.	(a)	What is SOA and web services.	10			
	(b)	What is an architecture implementation framework? How does an architecture				
		implementation framework differ from middleware?				
	(c)	What domain specific S.A. ?	5			
7.	(a)	What is C2 Style Architecture ?	6			
	(b)	Design issues for non functional properties - Scalability and Hetrogeneity.	6			
	(c)	Explain distributed object style in connection with CORBA architecture.	8			
