/ B.E. Comp. Sem-VIII (R) May 2013

Re-Val

GS-3817 Con. 9122-13. B.E sem VIII Computer Distributed Comput (3 Hours) [Total Marks: 10]	7 178 0
N.B.: (1) Attempt any five questions. (2) All questions carry equal marks.	
 (a) Explain Absolute Ordering and Causal Ordering process with the help of example for many to many communication. (b) Explain RPC system model in detail. 	10
 (a) Discuss the need of the co-ordinator. Also give any one algorithm for 1 co-ordinator selection. (b) What is the difference between strict consistency model and sequential consistency model? How sequential consistency model is implemented in DSM? 	
o (a) What is physical clock synchronization : Explain any one digention	10 10
(a) Llaw door light weight RPC; Work in cross domain architecture.	10 10
 5. (a) Discuss how processes and resources are bound together. How does process migration take place in Heterogeneous environment? (b) What are the good features of a Distributed File Systems? Explain file sharing semantics of it. 	10 10
6. (a) Justify the need of stateful and stateless server in RPC management.(b) How are failures handled in message passing system in distributed systems?	10 10
 7. Write any two of the following:— (a) Distributed Transaction Management (b) System Oriented Names for Distributed Computing (c) Load Balancing Issues (d) Distributed System Models. 	20

	Con.	8220-13. (REVISED COURSE)	
Ī	V.B. :	(3 Hours) (1) Question No. 1 is compulsory. (2) Solve any four from the remaining six questions. (3) Assume suitable data wherever required.	
1	(a) (b)	 What are the different types of workflow? Suggest application of mail enabled workflow. You are appointed as a Consultant to set up a multimedia laboratory in an Engineering institute. Give specification of components, configuration, connectivity, software etc. along with the assumption. 	10 10
2	. (a) (b)	printed toolillology, figure explain the monking of T	10 10
3.	(0)	The format.	10 10
4.		de d	10 10
5.	(a) (b)	What are the components of Distributed multimed in a superior of Authoring.	10 10
6.	(a) (b)	TAPIGHT IVIT EU-1 COMpression in detail	10
7.		te short notes on following (any two):— (a) Knowledge based multimedia system (b) MIDI communication protocol (c) Video conferencing: Design issues.	20

COMPUTER (68)

BE Sem VIII software Architecture - Computer.

Con. 7478-13.

(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.
- 1. (a) What do you mean by architectural degradation? Explain architectural drift and 4
 - erosion. (b) Define product Line Architecture.
 - (c) Why system based analysis important, if you have already completed component
 - What is a reference architecture? How does it differ from an ordinary Software and component level analysis?
 - 4 Architecture? What is a difference between view and viewpoint? 8
 - (a) What are different criterias for evaluating implementation framework? 8 2.
 - Explain REST with a diagram. (b)
 - Differentiate Software Architecture and Design.
 - 6 Define following terms :-(a) 3.
 - (i) Component
 - (ii) Connector
 - (iii) Configuration.
 - (b) Explain 4 + 1 view in UML.
 - (c) What do you mean by stakeholder driven modeling.
 - (d) Differentiate accuracy and precesion.
 - 20 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.
- Based on this 3 inputs determine new burn rate and set different parameters like altitude, velocity etc. and display them. Output -

Draw an architecture using any of two styles :-

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

5

5

Con.	7478	-GS-	297	4-13.
------	------	------	-----	-------

2

5.	(a) ·	Explain with example software system mobility and architecture.	10
	(b)	Explain any two connectors in detail :-	10
		(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	5
	. ,	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

BE. Sem-III Computer sub- Hyman computing

Date - 20/6/2013

mx.86-1st hlf 13-3

Con. 8532-13.

Computer. Human Computing Interact

W	(3 Hours) [Total Marks: 10	0
N.B.	 Question No. 1 is compulsory, solve any four questions from remaining question All questions carry equal marks. 	s.
	(2) All questions carry equal marks.(3) Specify your answers with neat diagrams and examples wherever necessary.	
. (a)		10
(b)	user interface. How text messages are important to communicate with user, explain with few examples.	10
	form interface design?	10
2. (a) (b)	What are general principles of user interface design? Design a user interface for Automated Ticket Vending machine for State Road Transport Service, consider all necessary elements in your design.	The state of the s
		10
3. (a	Explain screen based and device based control mechanism in detail. How ordering of screen data necessary in user interface design? Explain.	10
A (s	What are various tools in building Graphical user interface ?	10
	e) Explain different types of windows.	10
5. (What is visually pleasing composition for user interface? b) What are general principles in user interface design? Content are for any two home.	10
		10
6. (a) Write a brief note on information retrieval for web applications. b) What is use, usage and usability of interface system?	10
	A	20
7.	Write short notes on following:—	
	(a) Specifical Graphics Statistical Graphics	
	(c) Interaction Devices	
	(d) Importance of good design.	