## BELComp) SEM III. (Rev) my 2013 AII. 2015/13

25: 1st half.13-AM(z)

(d) Data base vulnerabilities

(e) AJAX.

(REVISED COURSE)

GS-3583

Con. 8716-13. (3 Hours) [Total Marks: 100 N.B.: (1) Question No. 1 is compulsory. (2) Attempt any four questions out of remaining six questions. 1. (a) State and explain ports, commands and communication steps used in FTP. 10 Describe virtual private Network and state is usefulness in various industries. 10 2. (a) Compare and explain SOA and ROA in detail. 10 Discuss the security issues in cloud. 10 3. (a) Explain the REST architecture and give its design constraints. 10 (b) Explain the concept of hierarchical routing with an example. 10 (a) Explain public key Infrastructure and secure payment mechanism in detail. 10 (b) Explain the concept of DNS and DNS head format. 10 (a) Explain the working of peer to peer over internet with example. (b) Explain IPv6 and its advantages. 10 6. (a) How does DHCP work? Explain its packet format. 10 (b) How Google App Engine works? Explain in brief. 10 7. Write a short notes on any four of the following:— 20 (a) RSS (b) VOIP (c) HTML 5.0

Con. 8527-13.

GS-3577

				(3 Hours)						[Total Marks: 100				
N.B.		<ol> <li>Question No. 1 is compulsory.</li> <li>Attempt any four questions out of remaining six questions.</li> <li>Assume suitable data whenever necessary and justify the same.</li> <li>Figures to the right indicate full marks</li> </ol>												
1.	(a) (b)	Give all the Explain 'c	_	1			_		odolc	gy and	l brief	ly expl	ain cach.	10 10
2.	(a) (b)													
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5.	(a)	Apply 'iter image :-	ative' a	and 'cla	assical'	conne	cted co	mpon	ent lat	elling	algorit	hms on	following	10
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•	(b)	Explain be	oundry	/ descr	iptors							•		10
6.	` /	Explain 'the Explain m	`	_		_		_	of ex	ample	S.			10 10
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4. 7.9. Extremal points

mk.86-1st hlf 13-J

Con. 8532-13.

GS-3565

#### (REVISED COURSE)

		(3 Hours) [ Total Marks: 1	100
	N.B.	<ol> <li>Question No. 1 is compulsory, solve any four questions from remaining question</li> <li>All questions carry equal marks.</li> <li>Specify your answers with neat diagrams and examples wherever necessary</li> </ol>	
1.	(a)	Explain various human characteristics which are considered while designing the user interface.	10
	(b)		10
2.	(a)	What are general principles of user interface design?	10
	(b)	Design a user interface for Automated Ticket Vending machine for State Road Transport Service, consider all necessary elements in your design.	10
3.	(a)	Explain screen based and device based control mechanism in detail.	10
	(b)	How ordering of screen data necessary in user interface design? Explain.	10
4.	(a)	What are various tools in building Graphical user interface?	10
	(b)	Explain different types of windows.	10
5.	(a)	What is visually pleasing composition for user interface?	10
	(b)	What are general principles in user interface design?	10
5.	(a)	Write a brief note on information retrieval for web applications.	10
	(b)	What is use, usage and usability of interface system?	10
7.		te short notes on following:—  (a) Spech recognition  (b) Statistical Graphics  (c) Interaction Devices  (d) Importance of good design.	20

Replace

45(b) - specify User laterface for any two home expliances is detail

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.
  - (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.
  - (c) What do you mean by stakeholder driven modeling.
     (d) Differentiate accuracy and precesion.
     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

Other inputs -Lunar Lander has two sensors

Explain 4 + 1 view in UML.

(i) Current Burn Rate

mapped to required 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.

#### Con. 7478-GS-2974-13.

2

5.	(a)	Explain with example software system mobility and architecture.	10
	(b)	Explain any <b>two</b> 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

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# BEICMPNI VIII (Rem) multimedia systems 13/05/13 Design

113:1ST HALF-13 (q)-JP

Con. 8220-13.

(REVISED COURSE)

GS-3196

| Total Marks: 100

		(3 Hours) Total Marks:	100
N.E	(2	<ol> <li>Question No. 1 is compulsory.</li> <li>Solve any four from the remaining six questions.</li> <li>Assume suitable data wherever required.</li> </ol>	
1.	(a)	What are the different types of workflow? Suggest application of mail enabled workflow.	10
	(b)	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
2.		Explain the printout technology. Hence explain the working of a Laser printer. Explain JPEG compression in detail.	10 10
3.	• /	Explain level O through level five of RAID functionality.  Explain WAVE file format.	10
4.	(a)	Explain working of Scanner and hence explain reasons for use of CCD by these	10
	(b)	Scanner.  Describe the algorithm for CCITT Group 3 standard. How does CCITT Group differ from CCITT Group 3?	10
5.	(a) (b)	Explain Authoring system and also explain different types of Authoring. What are the components of Distributed multimedia system?	1(
6.		Explain ADPCM in speech coding scheme.  Explain MPEG-1 compression in detail.	1(

7. Write short notes on following (any two):—

(a) Knowledge based multimedia system

MIDI communication protocol

(c) Video conferencing: Design issues.

### B.E (comp) viii Distributed computs,

24: 1st half.13-AM(aa)

Con. 9122-13.

(c) Load Balancing Issues

(d) Distributed System Models.

(REVISED COURSE)

**GS-3817** 

		(3 Hours) [Total	al Marks: 100
N	.B. :	: (1) Attempt any <b>five</b> questions. (2) <b>All</b> questions carry <b>equal</b> marks.	
1.	- •	Explain Absolute Ordering and Causal Ordering process with the example for many to many communication.  Explain RPC system model in detail.	ne help of 10
2.		Discuss the need of the co-ordinator. Also give any one algo- co-ordinator selection.  What is the difference between strict consistency model and se- consistency model? How sequential consistency model is implied in DSM?	equential 10
3.	• •	What is physical clock synchronization? Explain any one algorithm Explain deadlock avoidance algorithm in a distributed system.	n in detail. 10
4.	• •	How does light weight RPC work in cross domain architecture? Discuss file caching for distributed system.	10
5.	• •	Discuss how processes and resources are bound together. How doe migration take place in Heterogeneous environment?  What are the good features of a Distributed File Systems? Exsharing semantics of it.	
6.	, ,	Justify the need of stateful and stateless server in RPC managen How are failures handled in message passing system in distributed s	
7.		rite any <b>two</b> of the following :—  (a) Distributed Transaction Management  (b) System Oriented Names for Distributed Computing	20