Seat No. Total No. of Pages: 2

B.E. (CSE) (Part - I) (Semester - VII) (Revised) Examination, December - 2015

ADVANCED COMPUTER ARCHITECTURE

Sub. Code: 47917

Day and Date: Tuesday, 08 - 12 - 2015 Total Marks: 100

Time: 10.00 a.m. to 1.00 p.m.

Instructions: 1) Attempt any three questions from each section.

- 2) Figures to the right indicates full marks.
- Assume suitable data if necessary.

SECTION - I

- Q1) a) Explain following performance measures of Computer Systems. [8]
 i) MIPS Rate
 ii) Through put Rate
 - Explain how classification of various computer architecture is done based on notions.
- Q2) a) Distinguish among following computer technologies. [8]
 - Uniprocessor System versus multiprocessor systems.
 - Parallelism versus pipelining.
 - b) Explain principle of linear pipelining using space time diagram. What is need of latches between two pipeline stages? [8]
- Q3) a) What is memory bandwidth? Explain S-access memory organization using timing diagram. [8]
 - b) Why associative memories are called as content addressable memories?
 State it's advantages over RAM.

S - 2381 Q4) Write short notes on following (any three): $[3 \times 6 = 18]$ Vector instructions. a) b) Scalar Vs Vector pipelines. Cm * Architecture. c) Systolic arrays. d) SECTION - II What is data driven computation? How is different from conventional (05) a) computation? [8] Draw and explain static dataflow computer organization. b) [8] What are Bernstein's conditions? Explain how parallelism in a program Q6) a) is analyzed using it? [8] What is latency? Explain prefetching type latency hiding technique. b) [8] What are different types of data dependencies? Draw data dependence Q7) a) graph for the following code fragment. [8] (i Load R1,A ii) Add R2, R1 iii) Move R1, R2

- iv) Store B, R1
- b) Explain different language features for parallelism. [8]
- Q8) Write short notes on following any three:

 $[3\times 6=18]$

- a) Optimizing compilers for parallelism.
- b) Object oriented model.
- c) Static connection networks.
- d) Hardware and Software parallelism.



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Seat No.

Total No. of Pages: 2

B.E. (CSE) (Semester - VII) (Revised) Examination, December - 2015 ADVANCED DATABASE SYSTEMS

Sub. Code: 47919

Day and Date : Saturday, 19 - 12 - 2015

Total Marks: 100

Time: 10.00 a.m. to 1.00 p.m.

Instructions: 1) Attempt any three questions from each section.

- Figures to right indicate full marks.
- 3) Assume suitable data wherever necessary.

SECTION - I

- State the two important properties of Identity of an object and its 01) a) implementation. [8] b) What is difference between transient object and persistent object? Explain any two mechanisms for making the objects persistent. [8] Describe the design of ORDBMS with an example. (O2) a) [8] Compare RDBMS with ORDBMS. b) [8] 9 86 Describe ZPC in a distributed environment. (03) a) [8] Explain the use of XML for exchange of data. b)
- Q4) Write short notes on (any three):

[18]

- a) OQL
- b) Type hierarchies.
- c) Parallel join.
- d) XML schema.

Q5) a)	List the three ways in which DBA can time a database and	explain
	tuning of schema and transactions.	[8]
b)	What is E-commerce? State atleast 5 activities wherein databa	ises are

- used extensively to support these activities. [8]
- Q6) a) What do you mean by reverse engineering as applied to legacy systems. Explain big-bang approach & chicken-little approach. [8]
 - State and briefly explain various issues in data-server systems used in LAN.
- Q7) a) What is cross-tab? Is cross-tab different than relational table? With an illustration, explain the use of values "all" and "null" in cross tabulation.
 [8]
 - b) What is a data warehouse? Explain with necessary figures the components of a datawarehouse. [8]
- Q8) Write short notes on (any three): [18]
 - a) Main memory database.
 - b) Association rules of datamining.
 - c) Synonyms and Homonyms.
 - d) Order settlement.



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B.E. (CSE) (Semester - VII) (Revised) Examination, December - 2015 CYBER LAWS (Elective - I) Sub. Code: 47923

Day and Date: Thursday, 17 - 12 - 2015 Total Marks: 100 Time: 10.00 a.m. to 01.00 p.m. Instructions: 1) Attempt any three questions from each section. 2) Figures to the right indicate full marks. 3) Assume suitable data wherever necessary. SECTION - I Explain the scope of the IT Act. 2000. O1) a) [8] Explain the legal recognition of Digital Signatures. [8] Explain the legal recognition of electronic records as per IT Act. (02) a) 2000. [8] Describe the use of digital signatures in Government and its agencies. [8] What is Certifying Authority? State the functions of the Controller of Q3) a) CA. [8] Explain the power of search and seizure of controller of CA. [8] [6+6+6] Q4) Write short notes on: Issues in preparing legal rules for e-data interchange. a)

- Authenticity of electronic records. b)
- Functioning of Certifying Authority. c)

Q5)	a)	Explain the seven generic top level domain names.	[8]
	b)	Explain the dispactes similarity of the mark with the regist and dilution of Trademark.	ered mark [8]
Q6)	a)	Explain framing and spamming. State the various suggestions Junk e-mails.	to prevent
	b)	In case of cybersquatting, specify non-exchusive tests to bad faith.	determine [8]
Q7)	a)	Explain the role of RBI in payment systems.	[8]
	b)	What do you mean by publishing of information which is electronic form. State the punishments made there under.	obscene in [8]
Q8)	Wr	ite short note on :	[6+6+6]
	a)	Reverse Hijacking	
	b)	Breach of confidentiality & privacy	
	c)	Credit card laws	



Total No. of Pages: 2

Seat No.

B.E. (CSE) (Part - IV) (Semester - VII) (Revised) Examination, December - 2015

PROJECT MANAGEMENT

Sub. Code: 47922

Day and Date: Thursday, 17 - 12 - 2015

Total Marks: 100

Time: 10.00 a.m. to 01.00 p.m.

Instructions: 1) Attempt any three questions from each section.

- Assume suitable data if necessary. Draw diagrams and suitable examples, wherever necessary.
- 3) Figures to the right indicate full marks.

SECTION - I

- Q1) a) Describe briefly the concept of project management process groups.[8]
 - b) Explain the four frames of organizations. [8]
- Q2) a) Explain the process "Integrated Change Control". [8]
 - Explain the process of scope control. How it can be used to prevent scope creep.

Q3) a) Consider the following table

. . .

[8]

Activity	Initial Node	Final Node	Estimated Duration
A	1	2	2
B	2	3	2
C	2	4	3
D	2	5	4
E	3	6	2
E F G	4	6	3
G	5	7	6
Н	6	8	2
I	6	7	5
J	7	8	1
K	8	9	2

		The project start date is 01/07/2014
		 Draw the AOA diagram and calculate the critical path.
		ii) When will be the project completed at the earliest?
	b)	Explain in detail earned value management technique. [8]
()4)	Wr	ite short notes (Any three): $[3 \times 6 = 18]$
~	a)	Critical Chain Scheduling
	b)	WBS
	c)	Project management certifications
	d)	Return on Investment (ROI) method
	c)	Cost overrun
		SECTION - II
Q5)	a)	Explain in detail the process 'quality planning'. [8]
	b)	Explain Tuckman model of team development. [8]
Q6)	a)	List and elaborate the suggestions for improving project communications. [8]
	b)	Explain in detail tools and techniques for risk Identification. [8]
Q 7)	a)	List the reason organizations outsource. Why the trend of outsourcing is growing? [8]
	b)	Explain the terms: [8]
		i) Responsibility assignment matrix (RAM)
		ii) Resource Histogram
Q8)	Wr	ite short notes (Any three): $[3 \times 6 = 18]$
	a)	Control charts and seven run rule
	b)	ISO standards for quality
	c)	Make or buy analysis
	d)	Choosing suitable media for information distribution



Simulation

e)

Total	No.	of	Pages	:	2	
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B.E. (Computer Science & Engineering) Examination, December - 2015

INTRODUCTION TO MAINFRAMES

Sub. Code: 58286

Day and Date: Thursday, 03 - 12 - 2015 Total Marks: 100 Time: 10.00 a.m. to 01.00 p.m. Instructions: 1) Figures to the right indicate full marks. Attempt any three questions from each section. 2) Question no 4 and 8 is compulsory. 3) SECTION - I Explain Online and Batch processing with its applications. [8] (O1) a) What do you mean by instream and cataloged procedures. [8] b) What is dataset? Explain different types VSAM datasets. [8] (O2) a) What is EXEC statement? Explain it with example, b) [8] Explain z/OS with its features. [8] (O3) a) Explain following IBM utility programs. [8] b) i) IEBCOPY ii) IEHPROGM Q4) Write short note on (Any Three): [18] DD statement a) MVS address space b) CATLOG c) d) DASD

[8]	List and explain the Divisions in COBOL program.	(5) a)	Q5)
[8]	Explain IF statement in COBOL with example.	b)	
ain different	What is the use of EVALUATE statement? Give and explain forms of EVALUATE statement.	(6) a)	Q6)
FORM verbs [8]	Write a sample COBOL program where all types of PERFOR are used.	b)	
izer. [8]	What is optimizer in DB2? Explain the working of optimize	(7) a)	Q7)
Component [8]	Explain System Service Component & Locking Service Co of DB2.	b)	
[18]	rite short note on (Any Three):	98) Wr	Q8)
	DB2 CATLOG and DIRECTORY	a)	
	USAGE Clause	b)	
	REDEFINE Clause	c)	
	DB2 structure and components.	d)	

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Seat			
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Total No. of Pages: 2

B.E. (Computer Science and Engineering) (Part - II) (Semester - VIII)

Examination, November - 2015

GRID TECHNOLOGY

Sub. Code: 49447

Day and Date : Monday, 30 - 11 - 2015

Total Marks: 100

Time: 10.00 a.m. to 01.00 p.m.

Instructions:

- Q.4 & Q.8 are compulsory.
- 2) Attempt any two questions from Q.1, Q.2, Q.3.
- 3) Attempt any two questions from Q.5, Q.6, Q7.
- 4) Figures to the right indicates full marks.

SECTION-I

- Q1) a) Explain OGSA with service instance semantics, service data semantics and OGSA port Types.
 [8]
 - b) Draw basic structure of GT3 and explain base service resource management.
- Q2) a) Explain semantic activities with following:

[8]

- Ontology based grid resource matching.
- ii) Semantic workflow registration and discovery in mygrid.
- b) With neat schematic explain structure of Portlet Wrapper generator? [8]
- Q3) a) With schematic explain J2EE and Apache axis framework for invoking Web service. [8]
 - Explain OGSA-DAI port Types and OGSA-DAI functionality. [8]

Q4)	Wri	te a short note on (Any Three):	[18]
	a)	Topologies and types of grid.	
	b)	DAML-S and OWL-S.	
	c)	Autonomic computing.	
	d)	CORBA.	
		SECTION-II	
Q5)	a)	With neat schematic explain Grid monitoring architecture.	[8]
5.0	b)	With neat schematic explain different daemons in condor pool.	[8]
Q6)	a)	Explain the architecture of autopilot.	[8]
-	b)	What is cloud computing? What are the benefits and limitations of Explain different security issues in cloud environment.	of CC? [8]
Q7)	a)	What is virtualization? What are the types of virtualization? Explain sylvirtualization?	storage [8]
	b)	What is Desktop as a service? How desktop manages in environment?	cloud [8]
Q8)	Wr	ite a short note on (Any Three):	[18]
	a)	GSI.	
	b)	Resource discovery and Resource selection in scheduling.	
	c)	Delivery models of cloud computing.	
	d)	Job life cycle and Job management in condor.	

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Seat No.

Day and Date : Tuesday, 01 - 12 - 2015

Total No. of Pages: 2

Total Marks: 100

B.E. (CSE) (Part - IV) (Revised) (Semester - VIII) Examination, December - 2015

STORAGE NETWORKS

Sub. Code: 49448

Time: 10.00 a.m. to 01.00 p.m. Instructions: 1) Attempt any three questions from each section. Figures to the right indicate full marks. 2) SECTION - I What are the different components of disk drive? 01) a) [8] Explain different services provided by FC-3 of Fibre Channel Protocol b) Stack. [8] Explain fundamental laws governing disk performance. Q2) a) [8] Explain RAID Level 6 with diagram. Find write penalty for RAID b) Level 6. [8] Explain SCSI-3 architecture with diagram. 03) a) [8] Compare RAID 0+1 and RAID 1+0 b) [8] (04) Write note on : [18] Storage Infrastructure Management Activities. a) Importance of Cache in Intelligent Storage Systems. b) Interconnecting Devices used in SAN. c)

Q5)	a)	Explain different protocols used for file sharing in NAS.	[8]
	b)	Explain local replication technologies.	[8]
Q6)	a)	Explain Business Impact Analysis and BC Technology Solurecover from failure.	utions to
	b)	Explain Restore and Restart Considerations.	[8]
Q7)	a)	Explain Asymmetric Storage Virtualization in Network with ad and disadvantages.	vantages [8]
	b)	Explain different categories of backup based on granularity.	[8]
Q8)	Wri	te short note :	[18]
	a)	Explain Shared Disk File Systems.	
	b)	Objectives of virtualisation.	
	c)	Recovery-Point Objective (RPO) and Recovery-Time Objective	ve (RTO)

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Seat No. Total No. of Pages: 2

B.E. (Computer Science & Engineering) (Semester - VIII) (New Course) Examination, December - 2015

BUSINESS INTELLIGENCE SYSTEM (Elective - II)

Sub. Code: 49453

Day and Date: Thursday, 03 - 12 - 2015 Total Marks: 100

Time: 10.00 a.m. to 1.00 p.m.

Instructions: 1) Answer any three questions from each section.

- Answer to both the sections must be written in the same answer book.
- Figures to the right indicate marks.
- Draw neat diagrams and suitable example wherever necessary.

SECTTON - I

Q1)	a)	Discuss back room system architecture model with diagram.	[9]
	b)	Explain infrastructure requirement for front room.	[8]
Q2)	a)	List and explain any four dimensional modelling primer.	[8]
	b)	Explain establish naming conventions.	[8]
Q3)	a)	Explain dimensional modelling process flow diagram.	[9]
	b)	Explain conformed dimensions.	[8]
Q4)	a)	Discuss the value of metadata integration.	[8]
	b)	Discuss the profile and select the data source.	181

Q5)	a)	Describe four major requirement areas of the ETL System.	[9]
	,b)	Explain Surrogate key pipeline.	[8]
Q6)	a)	Explain operational business intelligence with example.	[8]
	b)	What are the roles of BI application developer and who does application job?	the BI [9]
Q 7)	11)	Explain navigating application via BI portal.	[8]
	b)	Explain simple application navigation framework.	[8]
Q8)	a)	Explain Query formulation.	[8]
	h	Explain audit dimension assembler	181



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B.E. (Computer Science & Engineering) Examination, December - 2015

INTRODUCTION TO MAINFRAMES

Sub. Code: 58286

Day and Date : Thursday, 03 - 12 - 2015 Total Marks: 100 Time: 10.00 a.m. to 01.00 p.m. Figures to the right indicate full marks. Instructions: 1) Attempt any three questions from each section: 2) 3) Question no 4 and 8 is compulsory. SECTION - I Explain Online and Batch processing with its applications. [8] Q1) a) What do you mean by instream and cataloged procedures. [8] b) What is dataset? Explain different types VSAM datasets. [8] (O2) a) What is EXEC statement? Explain it with example. [8] b) [8] Explain z/OS with its features. (03) a) Explain following IBM utility programs. [8] b) IEBCOPY i) IEHPROGM ii) Q4) Write short note on (Any Three): [18] DD statement a) MVS address space b) c) CATLOG DASD d)

Q5)	a)	List and explain the Divisions in COBOL program.	[8]
	b)	Explain IF statement in COBOL with example.	[8]
Q6)	a)	What is the use of EVALUATE statement? Give and explain diffe forms of EVALUATE statement.	rent
	b)	Write a sample COBOL program where all types of PERFORM ve are used.	erbs [8]
Q7)	a)	What is optimizer in DB2? Explain the working of optimizer.	[8]
	b)	Explain System Service Component & Locking Service Component of DB2.	nent [8]
Q8)	Wri	ite short note on (Any Three):	[18]
	a)	DB2 CATLOG and DIRECTORY	
	b)	USAGE Clause	
	c)	REDEFINE Clause	
	d)	DB2 structure and components.	

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