Reg. No.:

D 1678

Q.P. Code : [D 07 PCS 01]

(For the candidates admitted from 2007 onwards)

M.Sc. DEGREE EXAMINATION, DECEMBER 2010.

First Year

Computer Science

ADVANCED COMPUTER ARCHITECTURE

Time: Three hours Maximum: 100 marks

Answer any FIVE questions.

(5 × 20 = 100)

- 1. (a) What are the three architectural configurations of parallel computers?

 Explain. (12)
 - (b) Write short notes on Weltsprogramming and Time sharing. (8)
- (a) What is Temporal parallelism? Explain with example. (12)
 - (b) Write the main advantages and disadvantages of Data parallelism. (8)

- 3. (a) Discuss in detail about classification of Pipeline processors. (12)
 - (b) Write short note on Job sequencing and Collision prevention. (8)
- (a) What are the two categories of the SIMD interconnection networks? Explain. (12)
 - (b) Describe about Mesh-connected Iliac Networll. (8)
- 5. (a) Discuss the various abstract machine models for parallel computers. (14)
 - (b) Describe the odd-even transposition sort for a parallel computer. (6)
- 6. (a) What are the four Flynn's machine organization? Explain. (12)
 - (b) Describe the characteristics of Vector processing. (8)
- (a) Discuss in detail about Loosely coupled multiprocessors. (12)
 - (b) Explain the Crossbar switch and Multiport memories. (8)
- 8. (a) Explain the Instruction execution cycle. (15)
 - (b) Write short note on delay due to Data Dependency. (5)

			Reg. No. :	
	D	1679	Q.P. Code : [D 07 PC	CS 02
		(For t	he candidates admitted from 2007 onwar	rds)
	N	I.Sc. I	EGREE EXAMUNATION, DECEMBER	2010.
			First Year	
			Computer Science	
	10	1.07	IPUTER GRAPHICS AND MULTIMEDI	ΙA
	Tin	ne : Th	ree hours Maximum: 100	mark
4496			Answer any FIVE questions. (5 \times 20	= 100)
Stule	1.	(a)	Explain any two applications of congraphics.	nputer (10)
www.studyou		(b)	Discuss about raster-scan and randon displays in detail.	n-scan (10)
	2.	(a)	Describe the DDA line drawing algorith	ım.
				(10)
		(b)	Explain the pixel addressing scheme.	(10)

- (a) Elaborate the 2D-composite transformations.
 (10)
 - (b) Discuss any one of the method used for line clipping. (10)
- (a) Describe the logical classification of input devices. (12)
 - (b) Explain the Sutherland-Hodzeman polygon clipping. (8)
- (a) Discuss about parallel and perspective projection. (8)
 - (b) How are visible-surface detection algorithms classified? Explain depth-buffer method in detail.
- (a) Write a note on hypertext and hyper nodia.
 - (b) Explain the features of :
 - (i) Painting and drawing tools. (6)
 - (ii) 3D modeling and animation tools. (6)
- (a) Give the important aspects associated with using sound for multimedia projects. (12)
 - (b) Describe the video recording formats. (8)

- 8. (a) Explain the principles of animation. (10)
 - (b) Discuss the issues related to making still images for multimedia projects. (10)

D	1680	Q.P. Code : [D 07 PCS 03]	
	(For th	ne candidates admitted from 2007 onwards)	
	Antonio	EGREE EXAMINATION, DECEMBER 2010.	
		First Year	
		Computer Science	
		SOFTWARE ENGINEERING	
Tin	ne : Th	ree hours Maximum : 100 marks	
		Answer any FIVE questions. $(5 \times 20 = 100)$	7
1.	(a)	What are the five generic process framework activities? Explain (7)	
	(b)	Describe the incremental process models. (13)	
2.	Sum	nmaraize the important ascents of agile process dels. (20)	
3.	(a)	Explain the content architecture. (7)	
	(b)	Discuss the testing concept for web Apps. (13)	
4.	(a)	Elaborate the web engineering process. (7)	
	(b)	Describe the requirements analysis for webApps (13)	

Reg. No.:....

5.	(a)	Write a note on risk identification. (7)
	(b)	With an example, explain process - based estimation. (13)
6.	(a)	Discuss about software configuration management. (7)
	(b)	Explain how o conduct formal technical reviews. (13)
7.	(a)	Give an overview of the z - specification lunguage. (8)
Ċ,	(D,1	Describe the black – box, clear – box and state – box specifications. (12)
8.	(a)	Discuss about code and data restructuring aspects. (8)
	(b)	Explain the domain engineering process. (12)

Reg. No.: 3. Discuss (a) about routing IP datagrams in detail. (16)D 1681 Q.P. Code: [D 07 PCS 04] (b) State and explain the difference between X. 25 and Internet layering. (4) (For the candidates admitted from 2007 onwards) Explain in detail about flow control and M.Sc. DEGREE EXAMINATION, DECEMBER 2010. retransmission in TCP. (12)How to send in and receiving data through a First Year socket? Explain. (8)Computer Science 5. (a) Explain about FTP process model with neat li. gram. (10)COMPUTER NETWORKS List and explain the most commonly implemented TELNET options. (10)Time: Three hours Maximum: 100 marks Explain the following in detail: Answer any FIVE questions. Reverse address resolution protocol (RARP) (10) $(5 \times 20 = 120)$ (b) Subnet addressing. (10)1. Discuss in detail about Et ernet (a) Discuss about error and control messages in technology. (15)detail. (10)How are networks interconnected to form an Describe in detail about electronic mail. (10) internet work? (5) 8. Explain the following protocols in detail. 2. How a host maps an IP address to the correct GGP (a) EGP physical address? Discuss in detail. (12)RIP (d) OSPF. $(4 \times 5 = 20)$ (c)

(8)

Make a note on multicast addressing.

		Reg. No.:	3.	(a)	Explain the implementation of RPC mechanism. (10
D	1682	Q.P. Code : [D 07 PC 50	05]	(b)	Describe the communication protocols for RPCs. (10
	(For t	he candidates admitted from 2007 onwards)			III OS.
M	.Sc. D	EGREE EXAMINATION, DECEMBER 2010	0. 4.	(a)	Discuss about file-sharing semantics and file-caching schemes in distributed systems.
		Second Year		(l-)	Explain the issue of file tolerance in
		Computer Science		(b)	discributed systems. (8
1	F (19	ADVANCED OPERATING SYSTEM	5.		cribe the internal representation of UNIX files etail. (20
Tim	e: Th	ree hours Maximum: 100 mar	ks	161.33	
		Answer any FIVE questions.	AUI 106.	(a)	Explain the process scheduling in the UNIX system. (10)
		All questions carry equal marks. $(5 \times 20 = 10)$	00)	(b)	Describe the algorithm for booting the UNIX system and for Init process. (10)
1.	(a)	Describe the features of time sharing, bat	7.	(a)	Elaborate the architecture of the UNIX operating system. (12)
		and real-time operating systems.	(8)	(b)	Discuss about Kernal data structures. (8)
	(b)	Explain the concept of threads in detail. (1	(2) 8.	Writ	te a note on the following :
2.	(a)	Discuss about message passing.	(8)	(a)	Process Hierarchies. (6)
500	100000		56	(b)	Process states. (7)
	(b)	Describe the readers and writers problem. (1	2)	(c)	Implementation of processes. (7)

		Reg. No. :	
D	1683	Q.P. Code : [D 07 PCS 06]
	(For t	he candidates admitted from 2007 onwards)	
М	.Sc. D	DEGREE EXAMINATION, DECEMBER 2010. Second Year Computer Science	
I	NTER	RNET PROGRAMMING AND WEB DESIGN	
Tim	ie : Th	nree hours Maximum : 100 mark	s
		Answer any FIVE questions.	
		$(5 \times 20 = 100)$)
1.	(a)	Explain the two methods of listing items 10	1
	(b)	Discuss the various elements to get riputs from the users in a form. (10)	
2.	(a)	Discuss the HTML tags as a for formatting text. (10)	
	(b)	Explain about headings, horizontal rule, paragraph tags with example. (10)	
3.	(a)	Explain the selection structure statements in Javascript with examples. (12)	
	(b)	Explain recursion in Javascript with an example. (8)	

4.	(a)	Distinguish between break and con with labelled break and continue statem	
	(b)	Write notes on program modules Javascript.	s in (12)
5.	(a)	How to pass as array argument function? Explain with an example.	to a (10)
	(b)	Describe the use of string object Java cript.	t in (10)
6.	(a)	How to link a style sheet to a H document? Explain.	TML (10)
7.	(b)	Explain about sorting and searching as with example.	rrays (10)
7.	(a)	Discuss the mouse events with suitexample in DHTML.	table (10)
	(b)	List and explain DHTML filters with effects.	their (10)
8.	(a)	Describe about ASP objects in detail.	(10)
	(b)	Write notes on server-side includes.	(10)

Reg. No.:

D 1684

Q.P. Code: [D 07 PCS 07]

(For the candidates admitted from 2007 onwards)

M.Sc,. DEGREE EXAMINATION, DECEMBER 2010.

Second Year

Computer Science

DATA MINING AND WAREHOUSING

Time: Three hours Maximum: 100 marks

Answer any FIVE questions.

All questions carry equal marks.

 $(5 \times 20 - 100)$

- (a) What are the techniques used for the visual presentation of data? Explain. (8)
 - (b) Discuss the implementation issues associated with data mining. (12)
- Give an overview of statistical concepts that are the basis for data mining techniques. (20)
- (a) How is the decision tree algorithm C4.5 better then ID3? Explain.
 - (b) Describe the neural network-based classification algorithms. (12)

- (a) Discuss about distance-based classification algorithms. (10)
 - (b) Explain how to generate rules without a decision tree or neural network. (10)
- (a) What are data and task parallelism? (8)
 - (b) Describe the important aspects associated with hierarchical clustering algorithms. (12)
- 6. (a) Compare OLTP and OLAP systems. (7)
 - (b) Cive a detailed note on data marks. (13)
- 7 Elaborate the crucial decisions to be taken while designing a data warehouse. (20)
- Explain the applications of data warehousing and data mining in government sectors. (20)