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2007 - 2006

الإهداء

إلى والديّ الكريمين أمّك في عمريّما وأبّك عليّما الصلّات
والحافية، لما ألّما عليّ من فضل التربية والنصح والإرشاد.

إلى رفيقة دربيّ تشجيعيّما وعمليّ الصائم.

إلى الخوتيّ وجميع أهلك عائلتيّ الحريّة.

إلى كلّ أحبّ قارئ في الجنّاء بلديّ الثانيّ.

إلى كلّ زميل وصديق أزرنيّ متابع البحث والدراسة.

إلى كلّ من كان سبباً فيّ إنقلاء هذه الدراسة.

ألمحنيّ عمليّ المتواضع لهذا الأمر جميعاً.

البالغ

شكر و تقدير

أشكر الله عز وجل كل الشكر وأثنى عليه بما هو أهل له، وأحمده سبحانه وتعالى الطيب من طيب ما يتم له هذه الإطروحة التي أسأل الله العلي القدير أن ينفع بها... إنه سميع غيب.

يشرفني أن أتقدم بخاص الشكر ومخيم التقدير لسعادة الأستاذ الدكتور / قاضي عبد الجليل الجفوي وحرمته طيب تقدير العون والمساعدة، ونر بذكر جوداً في تشجيع وتوجيه ومساعدتي من أجل إنجاز هذه الإطروحة التي طورت في صينتها النهائية.

كما يسعدني أن أتقدم بجزيل الشكر والتقدير لأعضاء اللجنة المناقشة لتفضلهم بقبول مناقشة الإطروحة والاعتراف عليها.
و أتوجه بالشكر والتقدير والإعتراف للشعب الجنائي الكريم.
و أتوجه بالشكر والتقدير والإعتراف لكل أصحاب قلوب في الجنائ.
وأيضاً أتوجه بالشكر والتقدير لكل من أسهم برأيه وتوجيهه وتشجيعه لي.

وجزي الله الجميع خيراً الجزاء
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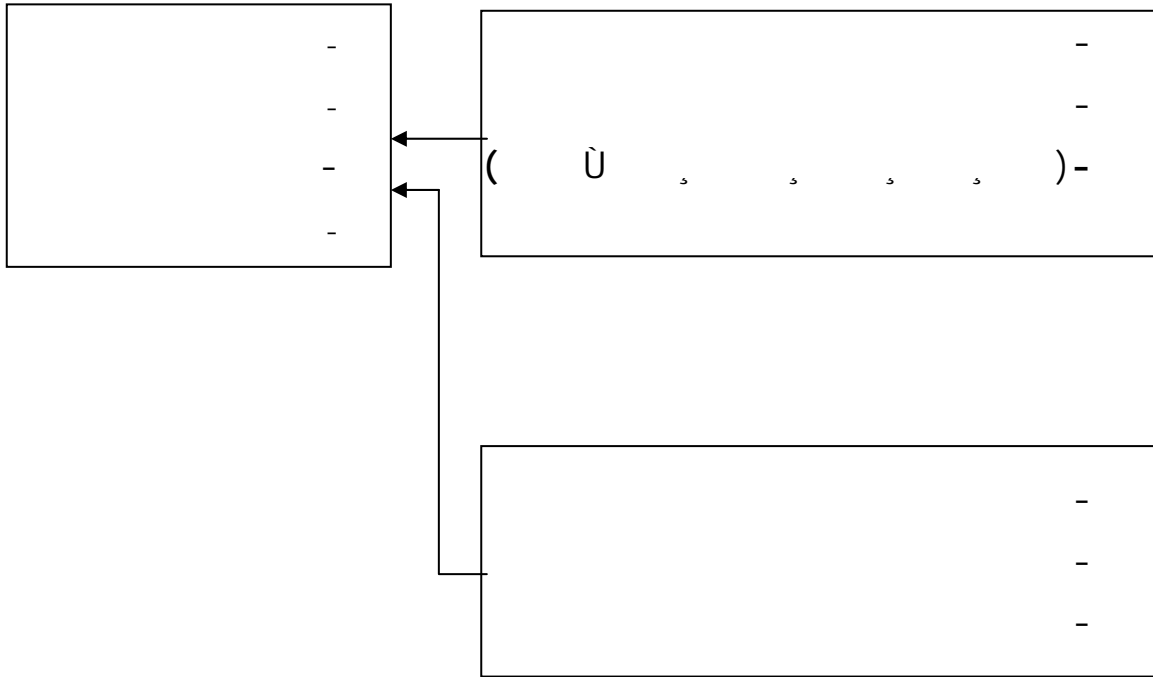
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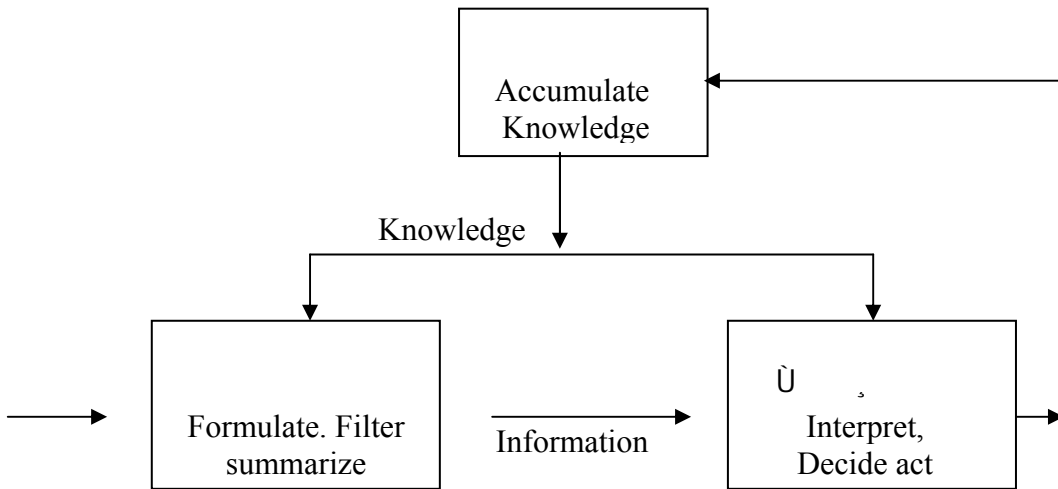
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Source: Alter Steve, "information system: A Management perspective", Reading addision-wesely, 3rd, 1999, p, 19.

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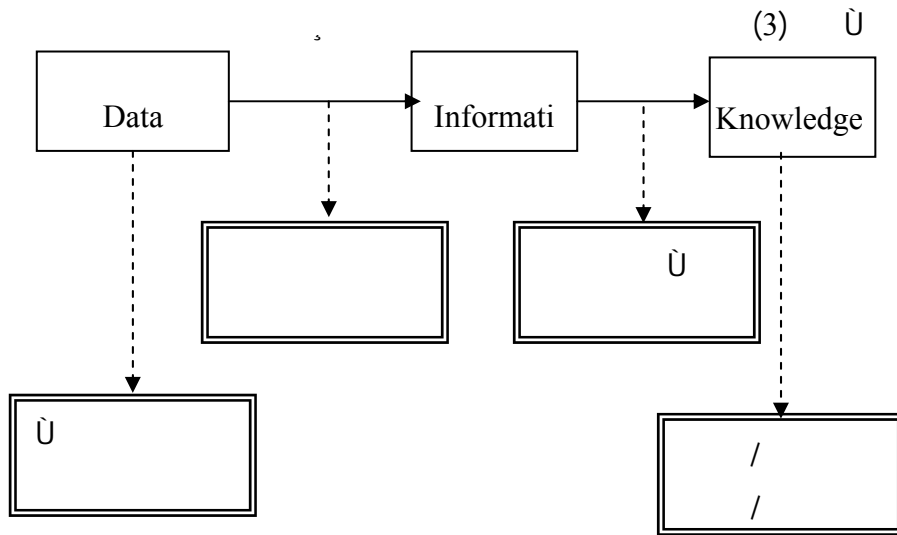
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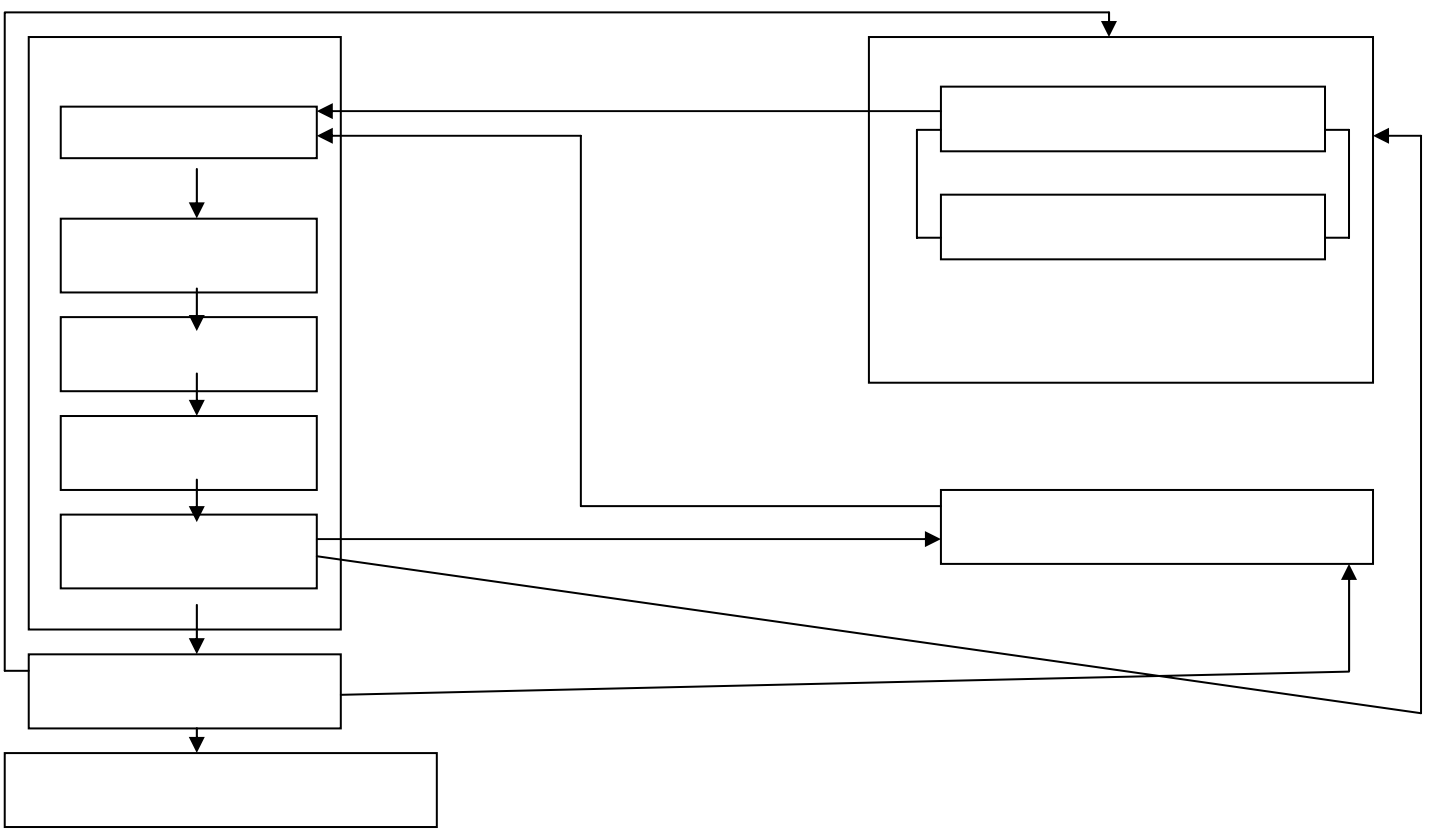
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3. James O. Hicks, Jr., Management Information Systems a User Perspective, Op.cit, 1995, pp67-67.

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		Feasible or Cost-Effective:	.7

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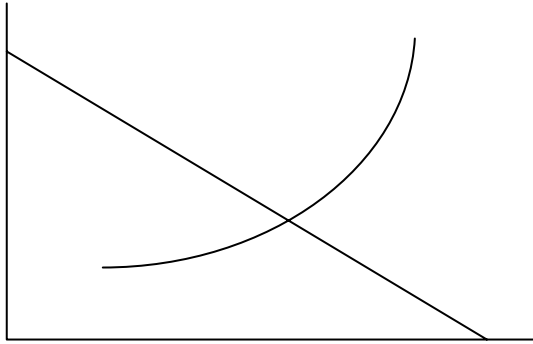
(5)

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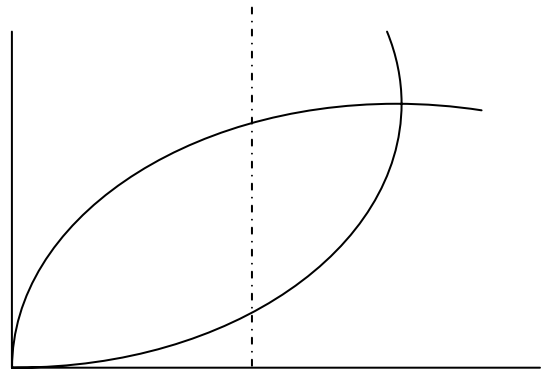
(5)

1. Christopher Martin, Powell, Information Systems/ A Management Perspective Op.cit, p14.
2. R.N. Nauhria, Rajnish Prakask, Management of Systems. New Delhi: A division of A.H Wheeler Publishing Co Ltd., 1995, p736.
3. Neumann Seev, Eil Segev, Evaluate your information systems. "Journal of Systems Management, Vol 31, No3, (March.1980), p15.
4.) John G Burch, Jr. ET. Al, Information systems/ Theory &Practice, Op.cit, p18.

(6) \dot{U}



(5) \dot{U}



Source: John G Burch, Jr. ET. Al. Information Systems / Theory and Practice, op.cit. p18.

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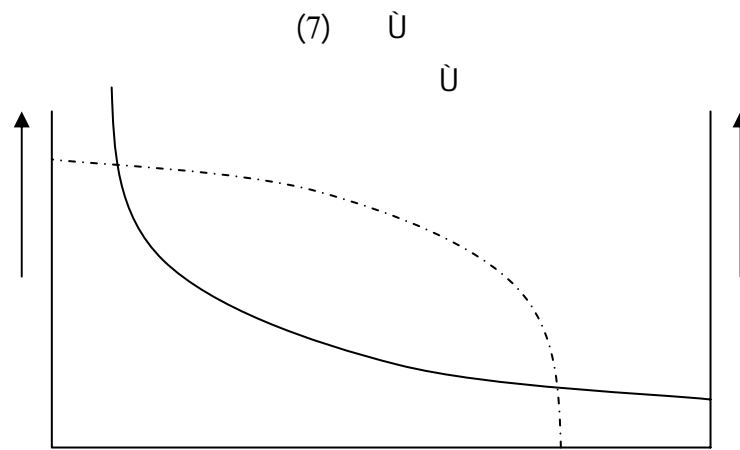
(7) \dot{U}

Economic Feasibility

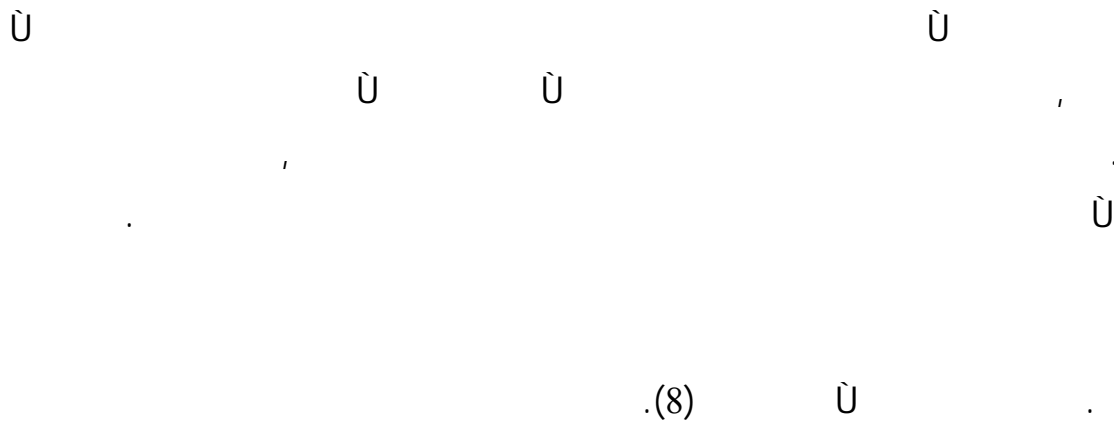
(1) Keith

Decision Error

1. Keith R. Mc Cloy, Resource Management Information Systems Process and practice, Op.cit Pp337-338.



Source: R.N.Nauhria, Rajnish Prakask, O.P. cit, Management of Systems, p736.



Source: Keith R.McCloy, Resource Management Information Systems Process and practice, Op.cit. p338.

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1. James C. Wetherbs, Systems Analysis for Computer-Based Information Systems, Op.cit, p38.

Top Management Information: .1

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Middle Management Information .2

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Lower Management Information .3

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Source : Kanter, J Management.Ori.MIS.P.8.

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: Accounting Information

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Summary

(1987,) ù ù

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(1) George M.Scott. Principles of Management Information Systems. New York: Mc-Hill Co. 1986, p47.

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Competitive Advantage

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Theart & Mintezberg

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Harrison

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1989, ,P.355) "

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Morton

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.(Morton,1978,P.126) "

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.9		.9	
Hill (1989)	Dafft(1988)	(1983)	Gillian et al.(1983)
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		Û .5	
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	.5	.5	
	.6	.6	
(2005)	(2002)	(1998)	(1997)
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.4	.3	.4	.4
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 Ö , Dafft(1988), Simon(1960), Archer(1980): Ö Ö Ö Ö Ö : .1
 (1996) , Gillian et al.(1983), (2002) ,(1998)

: (Eilon) ù

Information input .1

Analysis ù .2

Performance Measures .3

Model .4

strategies .5

prediction of outcomes .6

Choice criteria Resolution ù .7

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.(331 ÷ 1986,) ÷

Recognizing a desired objective : ù

considering the obstacles :

Selecting way to overcome the obstacles :

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cognition–Recognition of information .1

Ò – ù , production .2

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.Convergent

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÷ Evaluation -

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(Bryson&Bromiley,1993,Gallen,1997,Clarke,1998,Rajagoplan,et al.,1993

(Wang,1994, Harrison&Pelletier,1997,Heracleous,1994) Ò .12

D`Aveni&Macmillian, 1990). Õ Õ Õ Õ Õ .13

(John&Martin, 1984, Dafft et al, 1988,

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(Messik&Bazerman,1996,Natale et al.,1995,Anderson,2000).

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Antony (1994, 1994, 130, 1996, 79, 2000)

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Negotiated Delbecq (Gore et al., 1992, p.2) (Decisions

(Creative Decisions) (Routine Decisions)

Hudge & Johnson (Delbecq, 1967, p.329) (Decisions

Mission Design (Environmental Decisions)

Hudge (Evaluation Output) (Decisions (& Johnson, 1970

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1. البرمجة الخطية:

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(1997 ، 291)

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Õ :The process of decision making ➤

Õ Strategic decision making ➤

Õ , management control ➤

Ù

Õ Õ Õ Õ operational control ➤

Õ Õ Ù knowledge-level decision making ➤

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Unstructured decisions ➤

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Õ Õ Õ Structured decision ➤

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:(117,116,115 , 2005,

Ò Ò Ò Ò Ò rational model .1

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:systematic decision makers .2

intuitive decision makers .3

Ù trial and error

Ò Organizational decision making .4

structural and political characteristics of an organization

Ù

Ù

Ò Ò Ò Ò Ò bureaucratic model .5

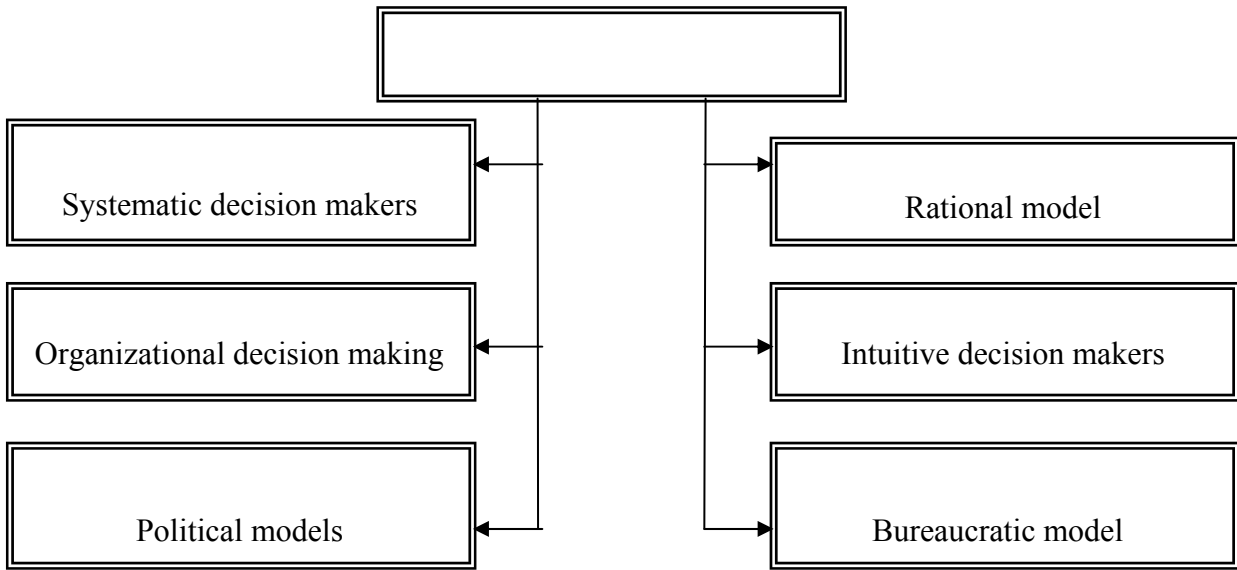
Ù

Ò : political models .6

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Ò garbage can" model"

accidental reasons



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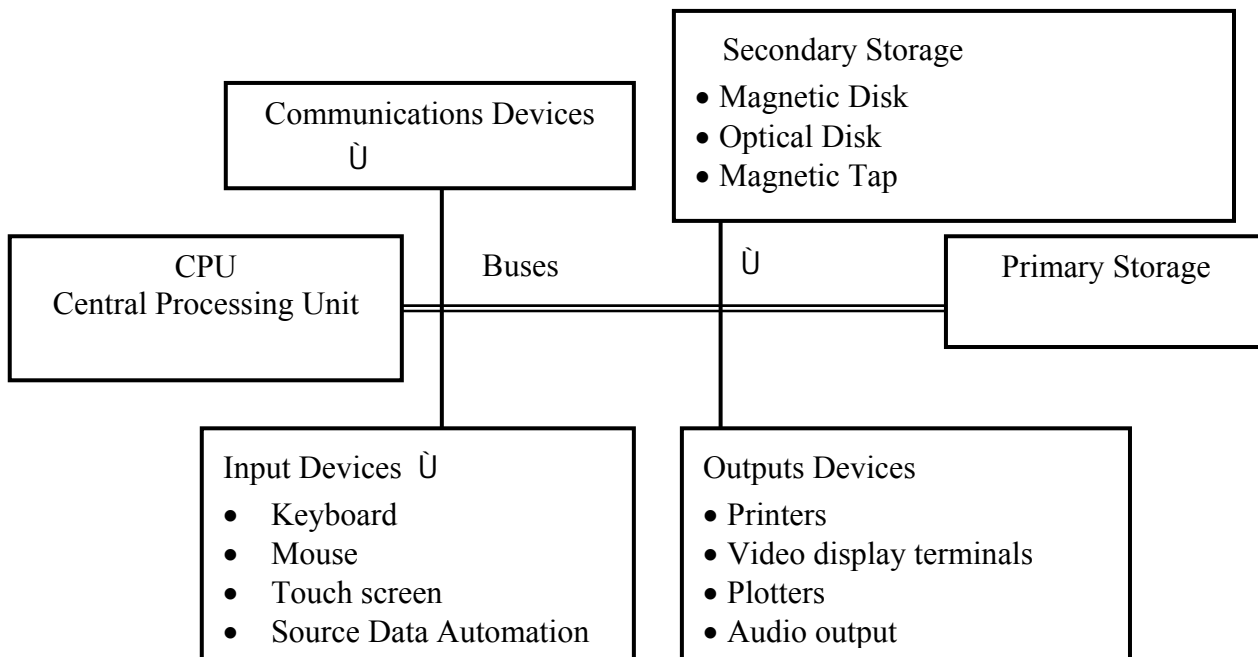
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Users

(340-330 , 2006 ,)

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Source: Kenneth C. Laudon, Jane P. (2005). Essentials of Management Information System: Managing the Digital Firm, Pearson Prentice Hall, 6th ed., p.193.

Central processing unit .1

System or CPU Box

Control unit (Arithmetic-Logic Unit (ALU))

Registers

(CU) (ALU)

Memory and Storage •

Random Access Memory RAM .1

RAM
 (Byte) Bytes Location
 (5)

	Storage Capacity
String of eight bits	Byte
1,000 bytes (actually 1,024 storage position)	Kilobyte
1,000,000 bytes	Megabyte
1,000,000,000 bytes	Gigabyte
1,000,000,000,000 byte	Terabyte
	Processing speed
1/1,000,000 second	Microsecond
1/1,000,000,000 second	Nanosecond
1/1,000,000,000,000 second	Picoseconds
Millions of instructions per second	MIPS

Source: Loudon & Loudon, op-cit. 195.

(1quadrillion bytes) Pet byte
 Semiconductor chips CPU
 Megahertz Microprocessors
 One million cycles per second Megahertz

Reduced instruction set computing

(RISC)

ROM .2

Read Only Memory
 .Ù Ù

Cache .3

Ù

516

Flash .4

RAM
 Flash

BIT Ù (1,0) Ù
 Ù 8 Ù Binary Digits

Secondary Storage •

(11) Ù
 Floppy Disk Magnetic Disk
 Hard Disk
 Optical Disks Magnetic Tape

Ù

CD-ROM (Read-only Memory Compact Disk, CD-RW (CD-Rewritable), Digital Video Disks) DVDs.

Input Devices Ù •

Computer Mouse , Keyboard Ù
 Bar Code Ù) Optical Character Recognition , Touch Screen
 , Pen-Based Input Õ Õ Ù Õ , Magnetic Ink Character (Õ
 .(Microphone Ù) Audio Input Ù , Digital Scanner

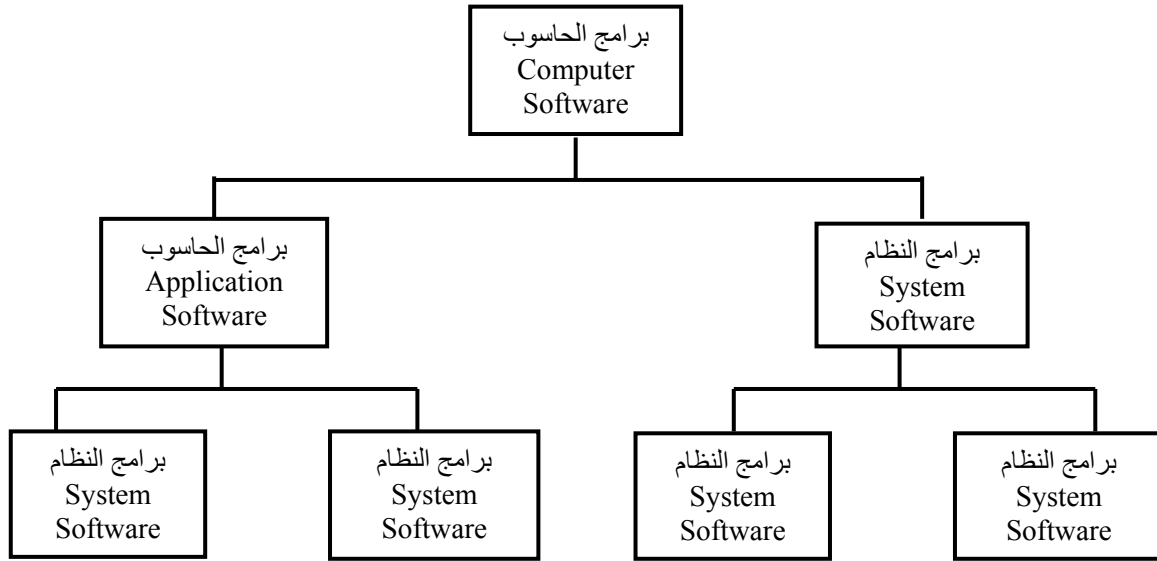
Operating Systems (Executive Monitor)

(Kenneth C. Laudon, Jane P. 1998)

Application Software

Application Software

Lotus 1.2.3, Excel) Spreadsheets, Word Processing, Web Browsers, Electronic Mail, Lotus Notes, Supply chain, Customer Relationship Management, E-Learning, e-Commerce, Management, Enterprise Resource Planning, Customized Software, Oracle, Database Management Systems, Operating Systems, SQL Server 2000, Network Management, CASE, Computer-Aided Software Engineering, Network Operating Systems, Network Management Programs, Microsoft's Windows NT, IBM's telecommunications Monitor CLCS, Novell Netware



- *Software suites
- *Web Browsers
- *Electronic mail
- *Word Processing
- *Database Manager
- *Personal Information Manager
- *Groupware
- *Business Accounting Transaction Processing
- *Customer Relationship Management, Enterprise Resource Planning
- *Science and Engineering
- *Education, Entertainment etc.
- *Operating Systems
- *Network Management Programs
- *Database Management Systems
- *Application Serves
- *System Utilities
- *Performance and Security Monitors
- *Programming Language Translators
- *Programming Editors Tools
- *Computer Aided software Engineering

Source: O'Brien James A., op-cit., 108.

Freeware shareware Commercial Software
 . ,Public Domain Software

Nonprocedural Language

4GL

.Java , C++, Visual Basic U Object-Oriented Programming

(HTML(Hypertext Markup Language U O O

.Sun Microsystems

Java

(Extensible Markup Language)XML

Kinds of Computers Systems: :

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(Gupta,U., 2000) (2005•144,) :

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:A personal Digital Assistant

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:A Notebook Computer 0

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PC

-2

A Desktop Computer

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Windows 0

Minicomputer Systems

-3

0 0 0

Mid-Range Computer

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0

Server 0

0

0 e-Business 0

0

e-commerce

Mainframe Computers Systems

-4

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Supercomputer Systems

-5

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,GE, GM,AT&T 0

,NASA

Database Management System

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Data Base))

(7, 1992)

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Data Recourse Management

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Data Warehouse

,DBMS

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Data Mining

The Concept of the database

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(288, 1989): Ù

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(8, 1992) "

It is an Organized Collection of Õ Õ Õ Õ

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Logically Related Data.

(151, 2005):

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character

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.() Byte

Logical Schema

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Types of Database Structures

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(154, 2005,) :

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Hierarchical Structure (U)

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Mainframe

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(One-to-Many)

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Network Structure (U)

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(Many-to-Many)

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U Mainframe

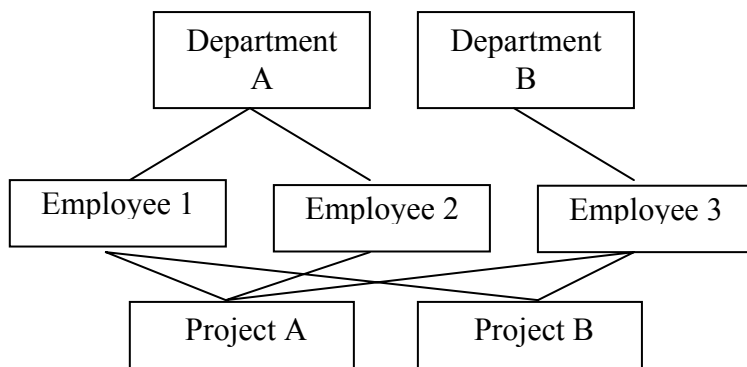
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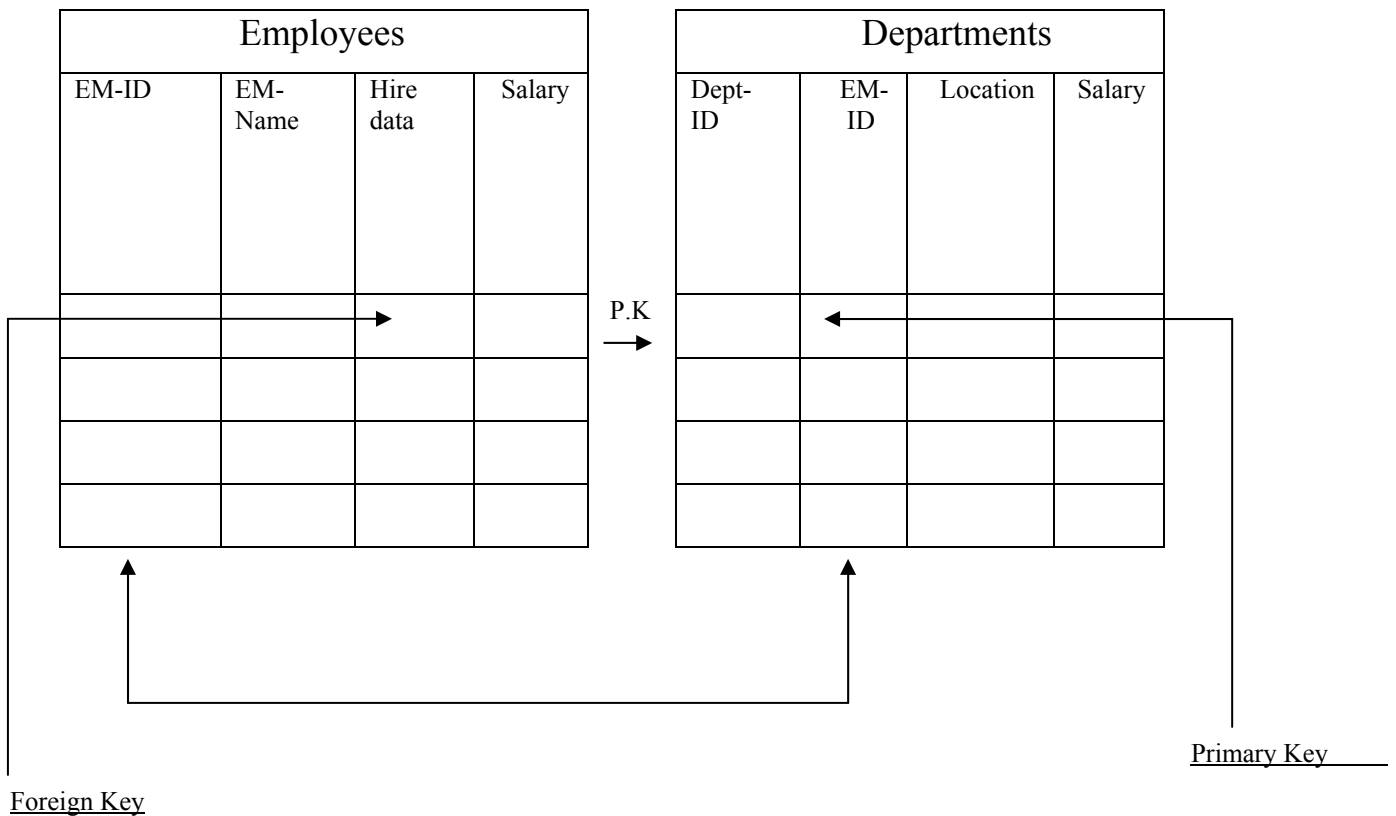


Relational Structure ()

Columns ()
 Records ()
 Rows ()
 Fields ()
 (Foreign Key (Primary Key))
 :(14)
 ()

Object-Oriented Structure

Object-Oriented ()
 Classes Objects
 Inheritance Encapsulation
 Polymorphism
 (14)



Multidimensional Structure

0 0 0 0 0 0

0 0 0 Visualization

0 .Large Cube Cubes Cubes of Data

0 0 0

.OLAP

Database Development :

0 0 0 0

0 .SDLC Systems Development Life Cycle

0 0 0 0 0 0

0 0 0 0

Physical Database Design

Logical Database Design

0 (Access, SQL server, Oracle) 0

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0

(156 ,2005 ,) :

0 0 0 Process Modeling 0 .1

.Data Flow Diagrams 0

Entity- 0 - 0 0 0 0 0 .2

.Relationship Diagrams

.Normalization 0 .3

.Normalization •

0 0 0 0 0 0

0 0 0 0 0

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(157 ,2005 ,) : 0 0

First Normal Form 0

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.Remove Repeating Groups

Second Normal Form

U U U U U U

.Primary Key U

O O O U U U

.Remove Partial Dependencies U

Third Normal Form

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O O O UO U

.Remove Transitive Dependencies

O U Normalization

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Entity Relationship-Diagram :

Entities

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:(15) U

Master Supplier ,Production Plan O O O O O O O O O O
Database O O O O Shipment,Item,Product,Schedule

O O U U Logical Design Schema

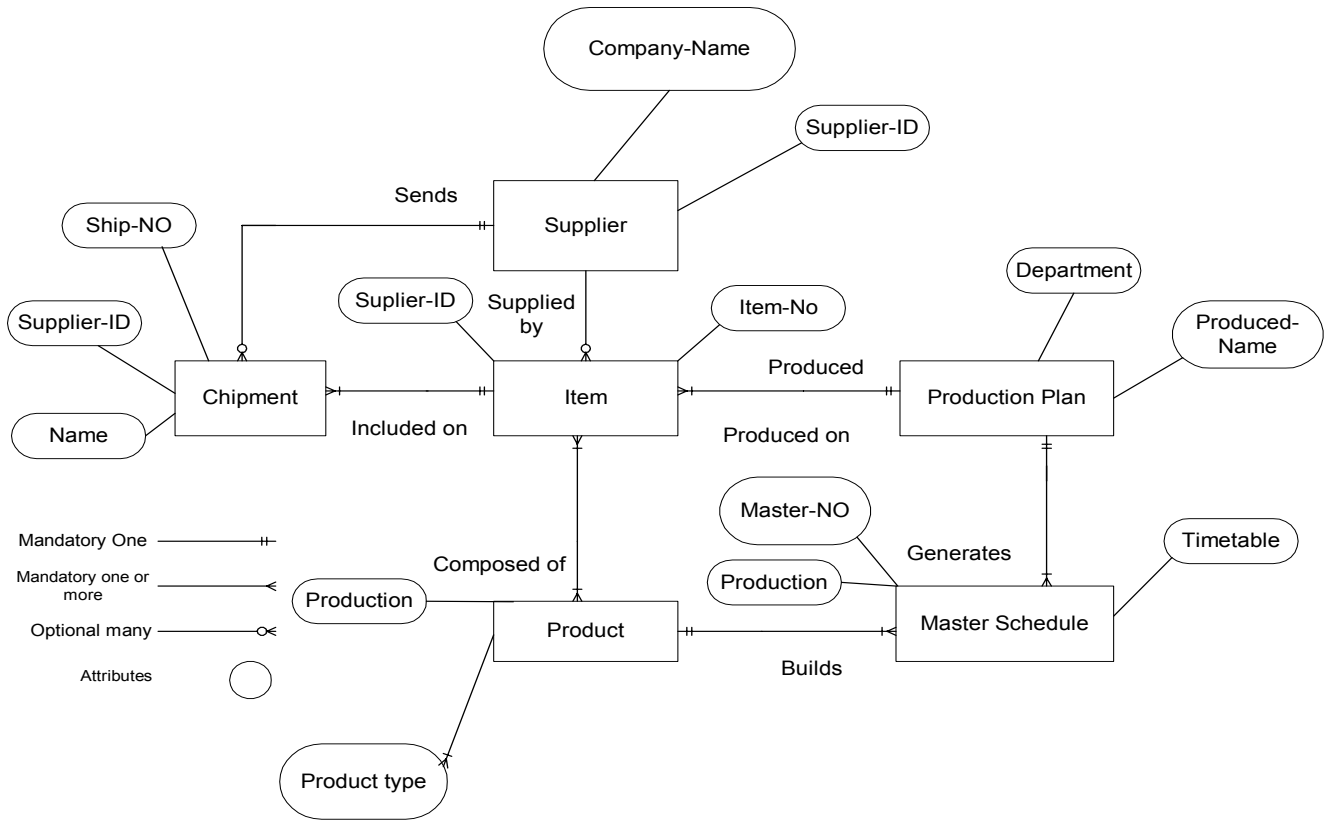
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,2005

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.159

(161 ,2005 ,)

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Communication and Networks Systems

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.Data Communications

e-Business õ ùõ a-commerce õ

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ù ,e-Management

õ õ ù

Corporate Telecommunication

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Enterprise Networking

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Networking Organization

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Computer Network

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Transmission Media ÛÕ

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Ù

.Data Communications

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Advantages of Computer Networks

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Õ The Computer is the Network

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Knowledge Capital

Ù

Knowledge

Knowledge Creation

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.Knowledge Transfer

„Sharing

Õ Õ Ù Groupware Systems

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Õ Extranet Õ Ù

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.Intranet

Ù

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-

Ù

Components of Computer Networks

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Ù

Õ Õ Clients Õ Server

.1

Network Operating System .2 Network Software

Network Protocols .3 Network Software
 Transmission control Protocol/Internet Protocol (TCP/IP)

Transmission Media .4

Twisted Pairs -
 .megabits per second

Coaxial Cable -
 .200 megabits per second

Fiber Optics -
 .6+Terabits Per second

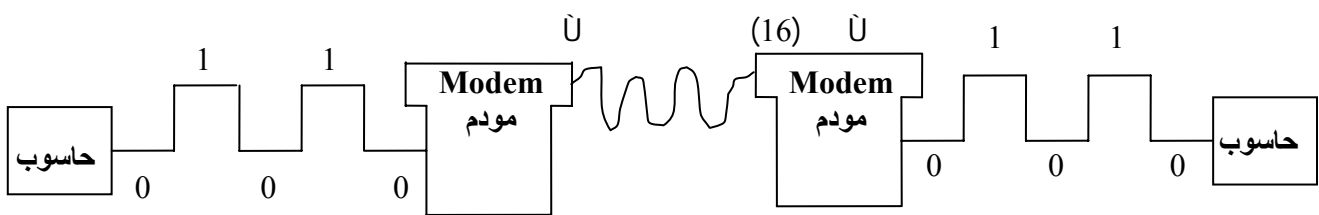
Microwave -
 .200+Megabits Per second

Satellites -
 .200+Megabits Per second

Wireless Transmission .5
 Wireless LANS
 802.11 family of standards

.For Wireless Fidelity Wi-Fi

:(16) Analog Digital Modem



- Hub
- Switcher
- Routers
- Gateway
- Bridge
- Repeaters
- Multiplier

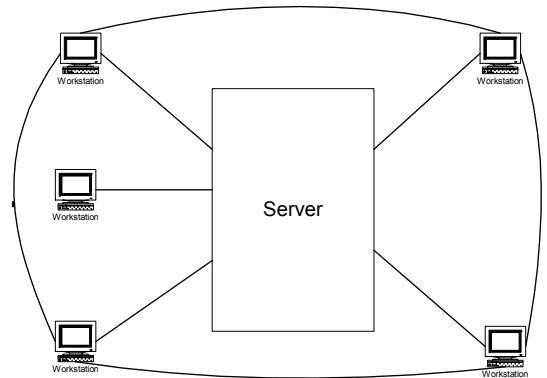
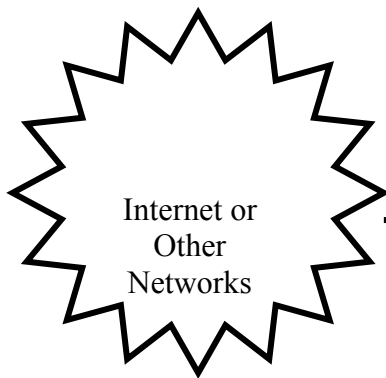
Types of Networks :

Local Area Network .1

LAN

2,000-foot radius

Wide Area Network (WAN)



,2005

.165

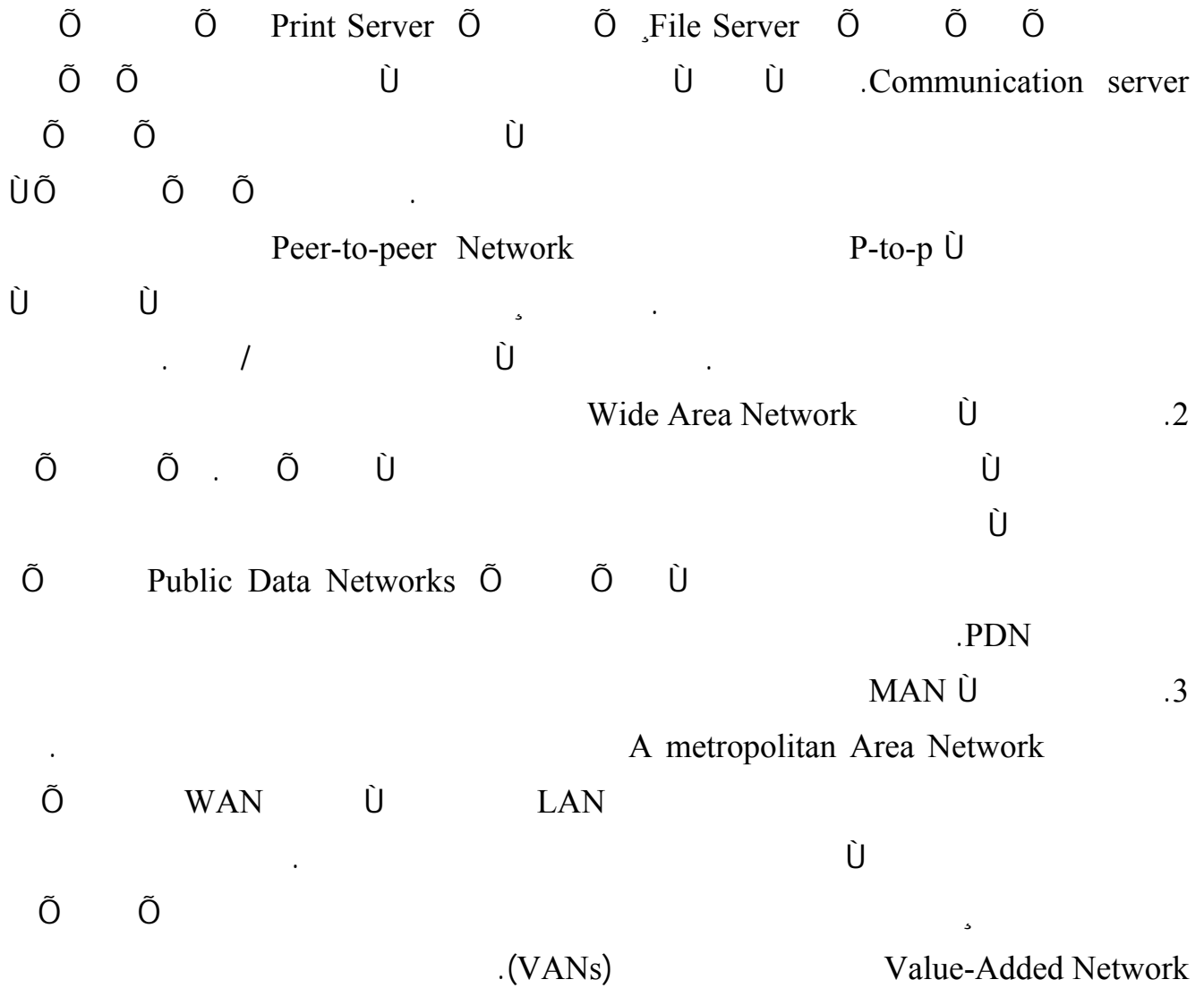
Client\server /

LAN

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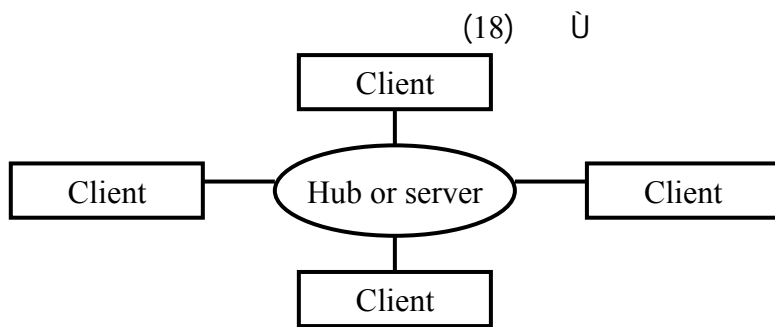
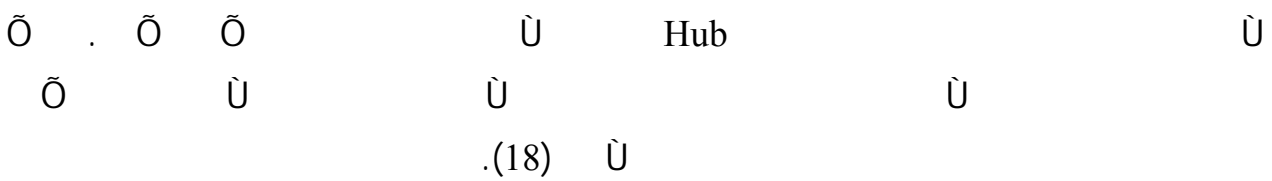
.Clients



Network Topologies :

(167, 2005,) :

Star Network -



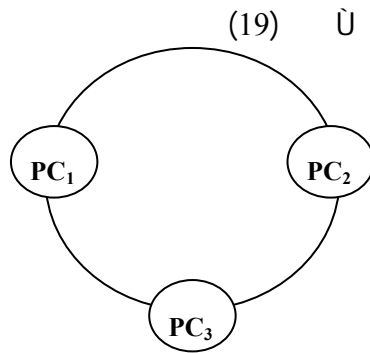
Õ Û Õ Õ Ù Ù Ù Ù
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Hub

Server

Ring Network

Õ () Ù Ù Ù
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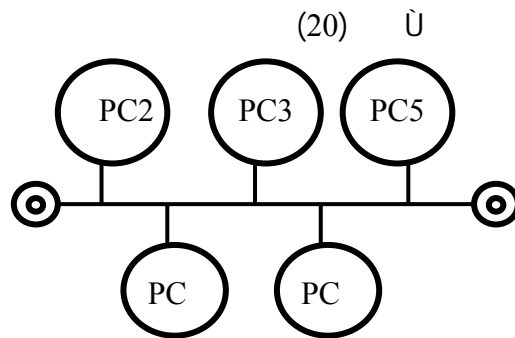


.168 ,2005 ,

Õ Ù Ù Ù Ù Ù Ù Ù Ù
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Bus Network

:(20) Ù



.169 ,2005 ,

Business Networks Ø

Intranet IT Intranet Internet Extranet Infrastructure

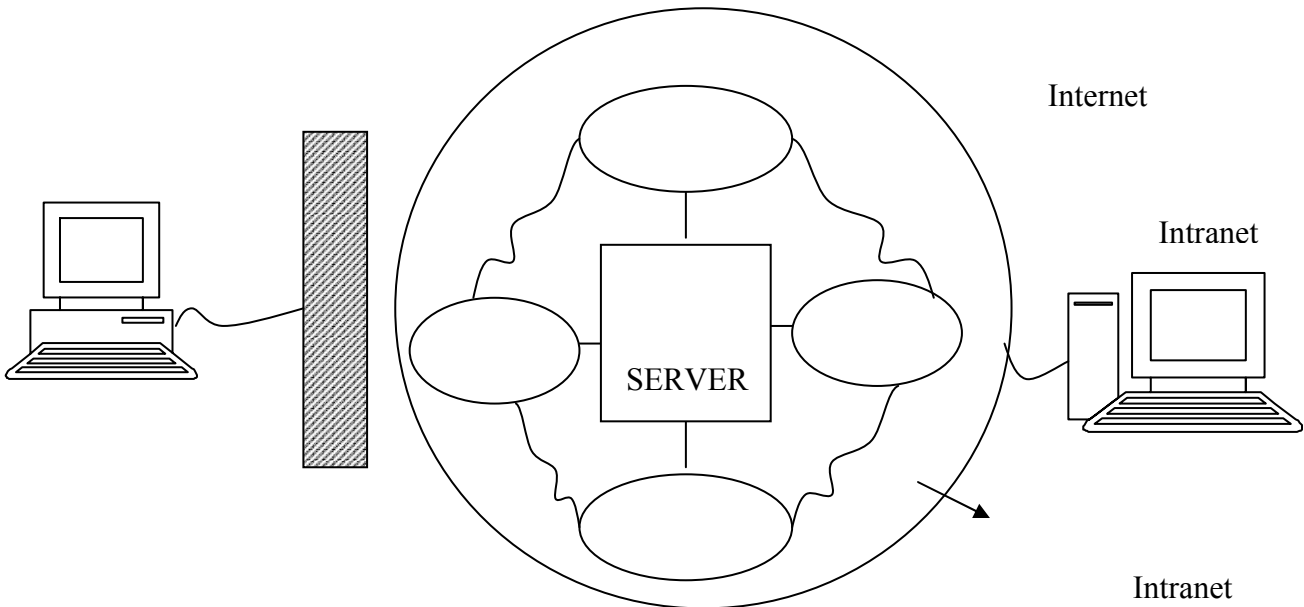
Intranet

IT Intranet Internet Extranet Infrastructure (356, 2005)

Intranet Internet Extranet Infrastructure (169, 2005)

Firewalls

Intranet Internet Extranet Infrastructure (21)



Organizational benefits of Intranets

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- (146, 2005,) :
- .1
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 - .4
 - .5
 - .6
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 - .8

• (169, 2005,)

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(357, 2005,) (171, 2005,)

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Extranet Net :

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Extranet

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Intranet

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• Extranet

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Human Resources

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(151, 2005,) :

(Gupta, U., 2000) (Zwass, V., 1998)

					End-user	.1
Õ	Õ		Ù		Ù	
		Ù	Ù			
		Ù				
				Knowledge Workers	Ù	.2
					Ù	
					Ù Ù	
Õ	IT & Information Systems				Ù	.3
					Ù	
Systems Analysts & Designer	Õ	Õ	ÙÕ	Ù		
Network	Õ	Õ	Database Manager	Õ	Õ	Õ
						Programmers
						Manager
Õ	Õ		Data Analysts		Ù	
	Intellectual	Ù				
Õ						
			Knowledge Capital		Ù	
ÙÕ	Õ				Ù	
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Õ						Information Technology & Communication
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Public Service Electric & Gas

Williamson(1995)

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The Concept of the System

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Systema

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parker

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1994 õ õ õ

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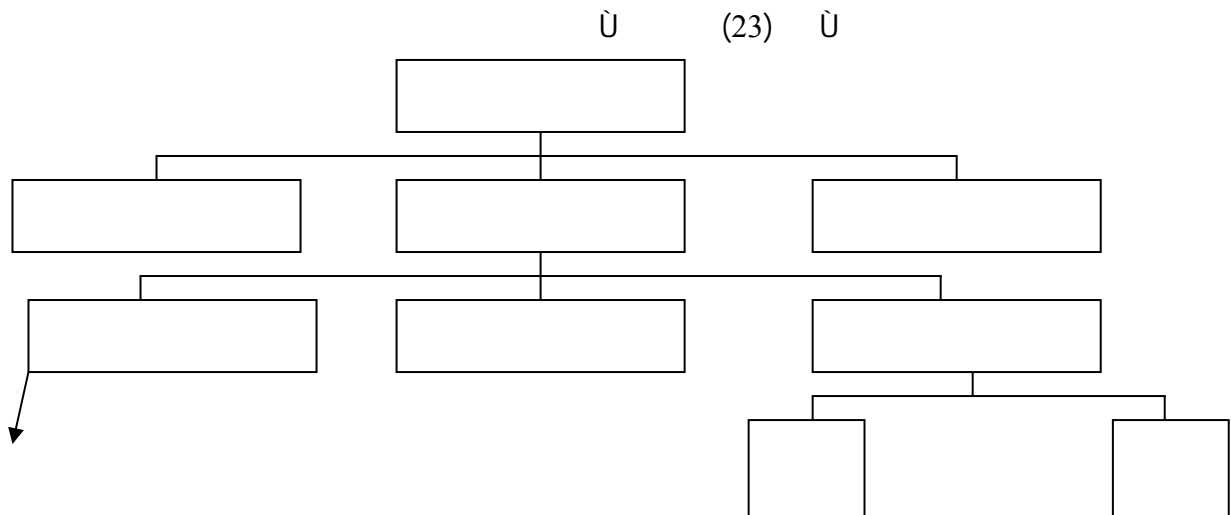
.1

2. Christopher Martin, Philip Powell, Information System, A Management Perspective, Op.cit, p32.
3. Charles S. Parker, Management Information System, Strategy and Action, New York, McGraw Hill Publishing Co.1989, P86.

Õ " (1)" Ù
 taggart .(1)" Ù
 Õ .(2)" " Ù
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 .Ù Ù .1
 Ù .2
 Õ Ù .3

Subsystem :

Õ Õ Õ Ù Ù
 Õ Ù .(3)" Ù
 (23) Ù



Source: Mike J.S.Harry.Information and Management system, op.cit, p.15.

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- ,1986 , 1 , .1
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 .57 ,1994 , Ù .2
 3. Mike J. S. Harry. Information and Management System, London, Pitman Publishing, 1990, P15.

:Components of system :

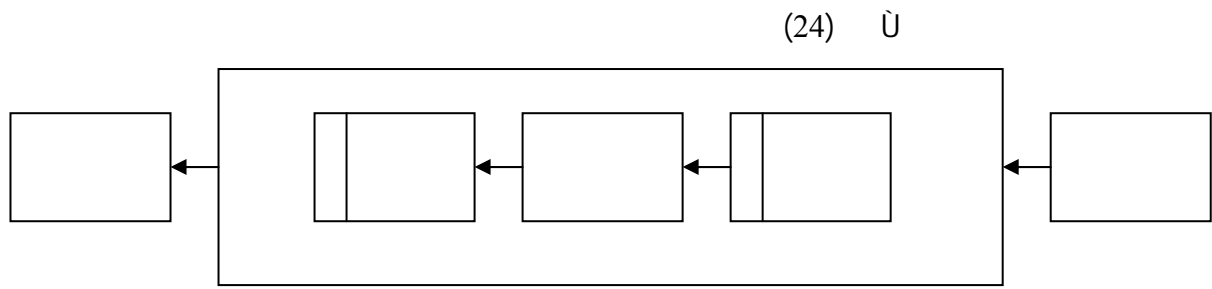
				(4) (3) (2) (1)					
							:Input		.1
							:Serial Inputs		-
							: Random Inputs		-
							:Substitute Inputs		-
							: Feedback Input		-
							:Processing		.2
							Boundaries:		.3
							: Outputs		.4
									-

1. R.N.Nauhria, Rajnish Prakask, Management of System, op.cit, p.21-23.
 .19-15 ,1989 .2

1996 .3

.20-19

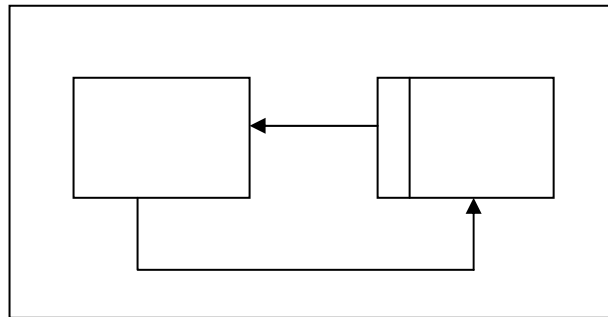
4. Christopher Martin, Philip Powell, Information System, Op.cit, pp32-33.



Source: Charles S. Parker, Management Information system, Strategy and Action, op.cit, p.87.

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(25) \dot{U}

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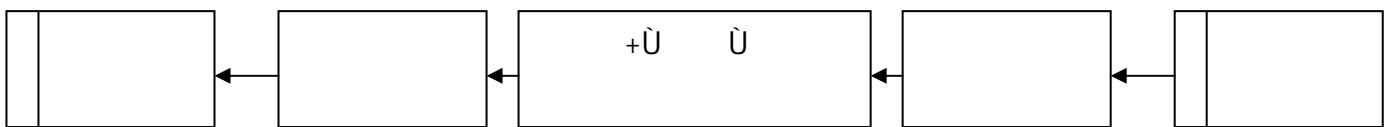
Source: Ibid; p.88.

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\dot{U}

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Source: Ibid; p.88.

:Feedback control

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:Types of the Systems

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			:		
				Open Systems:	.1
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0			0	: Closed Systems	.2
0			:	()	.3
0	0	0	0	0	0
			0	:Man-machine Systems	.4
				Deterministic Systems:	.5
0	0		0	:Probabilistic Systems	.6
0			0	()	0

1. Gordon B. Davis, Margrethe H. Olson, Management Information System, New York, McGraw Hill Inc., 1985, P272.

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:(1)

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Õ Õ Ù Ù
 Hardware People
 Networks Data Software
 Ù
 Õ Õ Ù Ù Ù Ù Ù
 :(27) Ù

Õ Ù Õ : People Resources .1

Õ Õ End Users
 Information Systems Specialists Ù
 :users .2

Õ
 IS Specialists
 Õ System Analysts Õ Õ Ù
 System Operators Software Developers

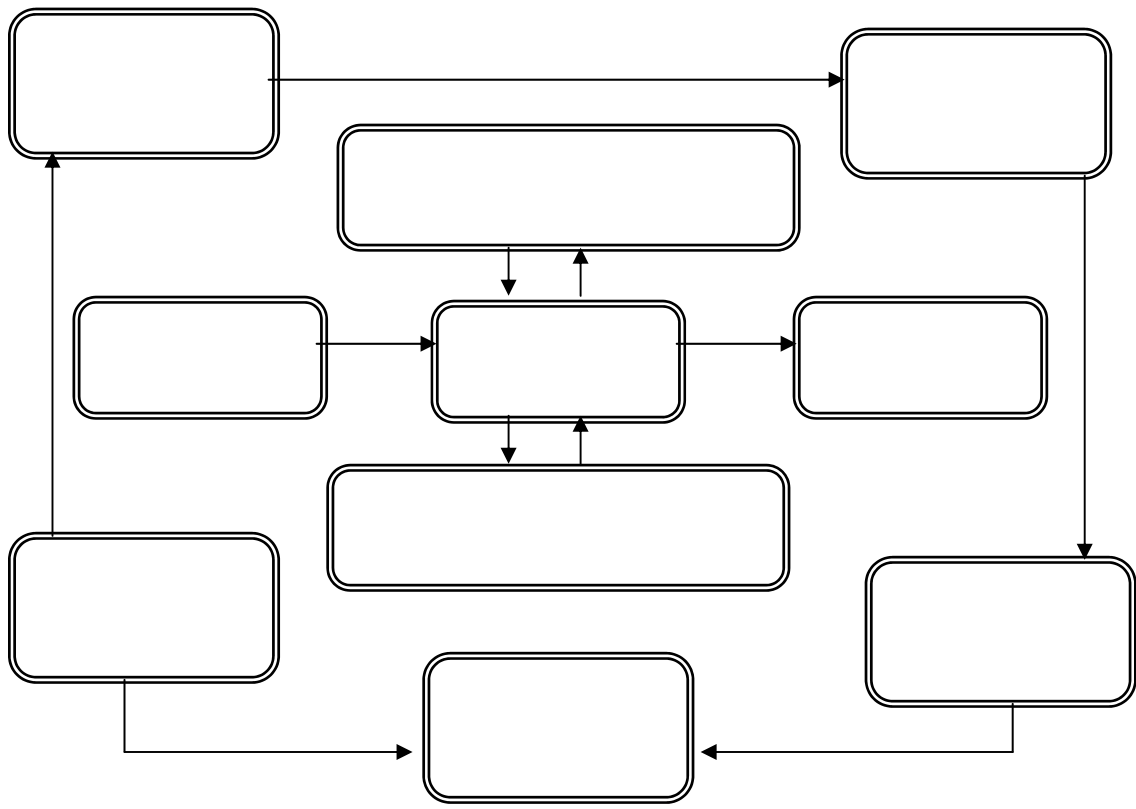
Õ Õ Ù Ù : Hardware Resources .3
 Ù

Õ Tangible Objects Media Ù Ù
 Õ Õ Sheet of Paper Ù
 Computer Õ Õ .Magnetic or Optical Discs
 Õ Õ Computer Peripheral Systems
 Ù

	: Software Resources	.4
. Programs		
:Data Resources		.5
:Network Resources		.6
:Organization		.1
(Manpower)		.2
(Hardware)	Technology	.3
(Application programs)		

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Management challenges

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Integration

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Enlarging scope of management thinking .2

industrial networks enterprise systems

industrial networks

enterprise systems

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(2)

Information Architecture: .1

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1. Gupta, U, Information System: Success in the 21st century, Creighton University, (Prentice Hall, Inc.)200.
 2. Laudon, And Laudon, J., Management Information System: New Approaches to Organization and Technology, (Prentice Hall, Inc.)1998.

Globalization: .3

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Information Overload : Ù .5

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Organizational Resistance: .6

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1. Gupta, U, Information System: Success in the 21st century, op.cit, p.200.

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(1960-1950)

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transaction processing

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(1960-1970)

Electronic data processing

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Õ Õ Õ Õ (1980-1970) Õ

(MIS)

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(RIS)

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(EIS)

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(SIS)

1990

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Information System

(49, 1992)

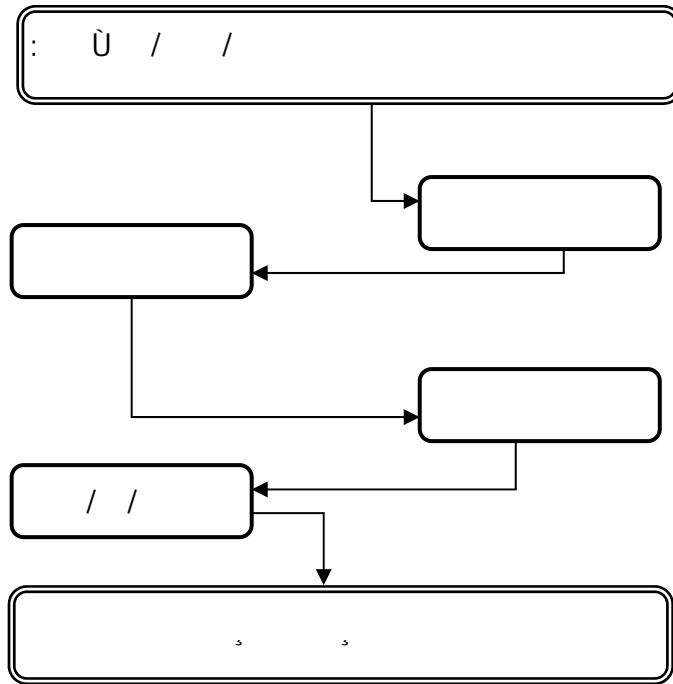
(O'Brien, 1990: 18)

(58, 1999)

(Bocij, et al, 2003: 43)

information data (24 : 2005)

(24 : 2005) (30)



24 ,2005,

Õ Õ , computerize information system

, Computer-based information systems

, Hardware Õ Õ Õ , (CBIS)

Software

ù ù ù

.(Whitten, J., Bentley, L. and Barlow, 1991)

ù Õ Õ : Integration Information System ù

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.(52 : 1984 ,)

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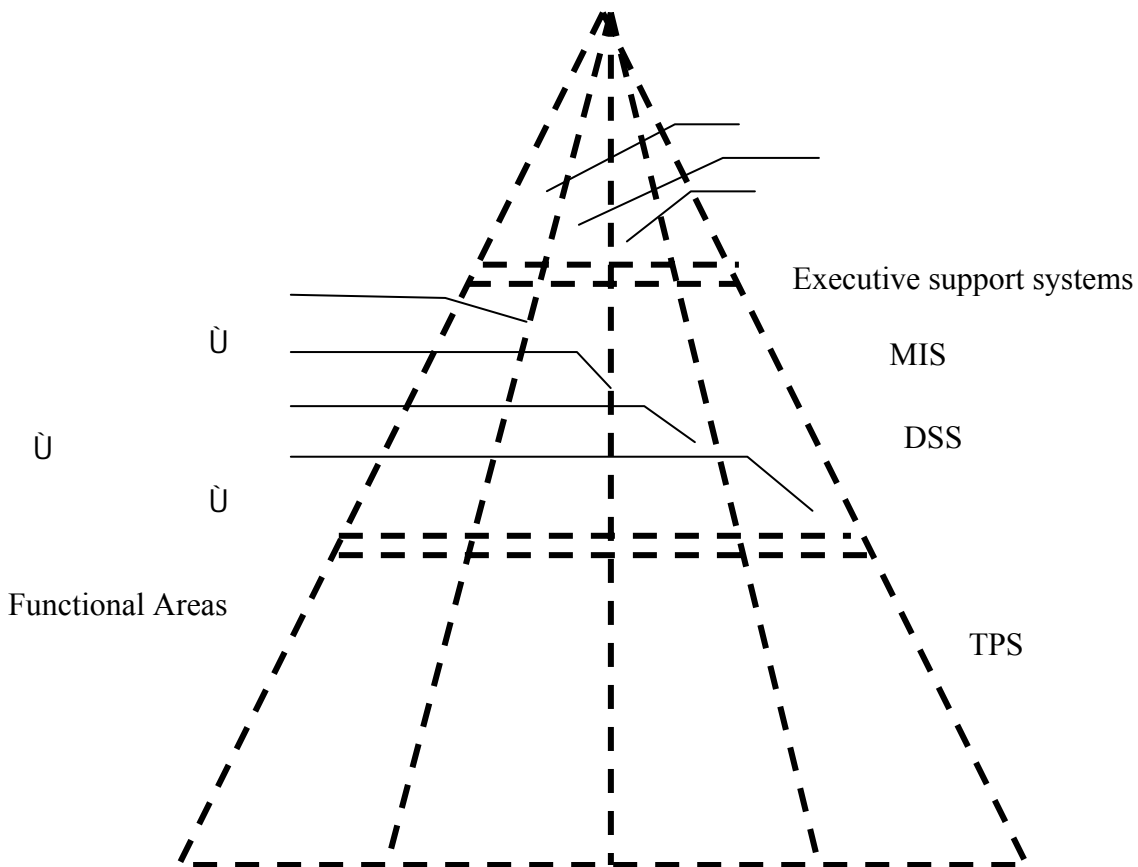
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Management Level Systems
 Operational Level DSS Support Systems
 .TPS .MIS System
 .(31)

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 .MIS .DSS .ESS
 .TPS
 MIS .
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.Laudon

Laudon (31) .



Source: Kenneth C. Laudon, Jane P. Laudon, Essentials Management Information System, Organization and Technology, Op.cit. p.32.

Ù O'Brien .2

O'Brien

:(32) Ù

Laudon

Õ MIS Õ

EIS

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Material Requirement Planning

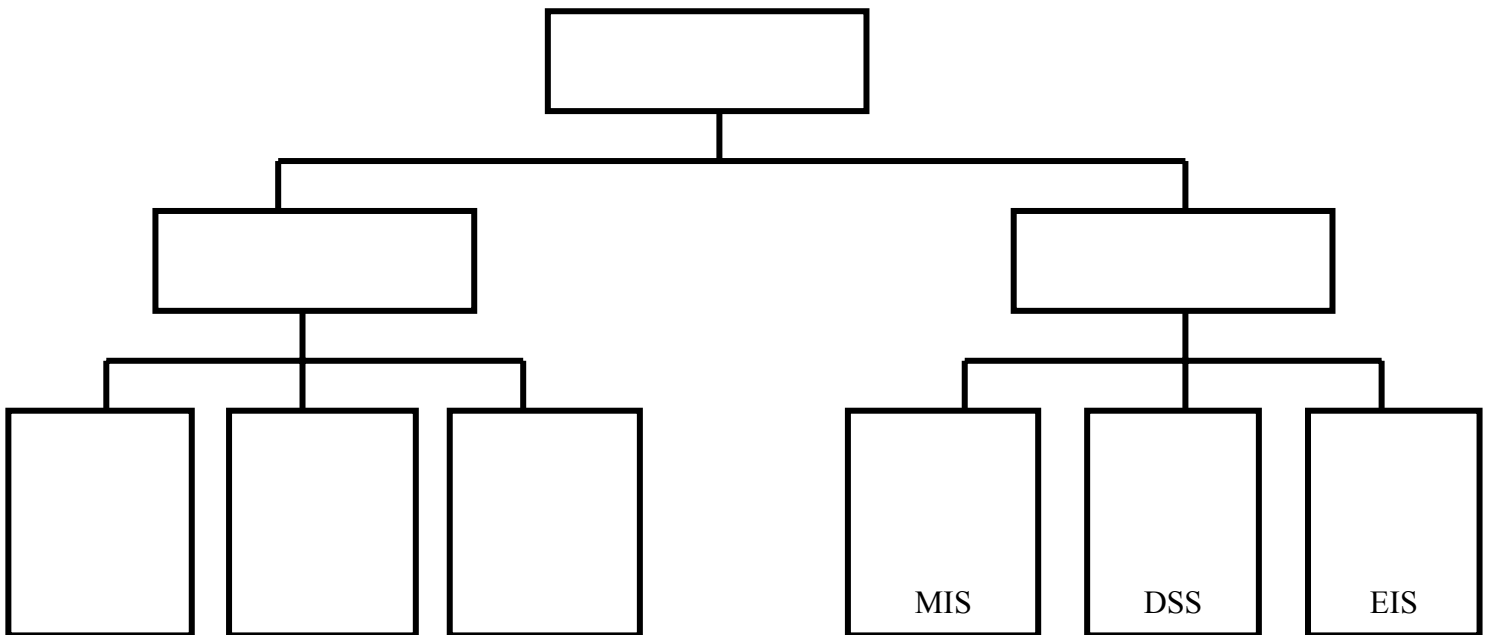
Manufacturing Systems

Computer-Aided Design System

OAS

Ù Ù

O'Brien (32) Ù



Ù

Ù

Source: O'Brien James A. (2003). Introduction to Information systems: Essentials for the e-Business Enterprise, McGraw-Hill Irwin, P-24.

Õ DSS, EIS, MIS Ù

O'Brien

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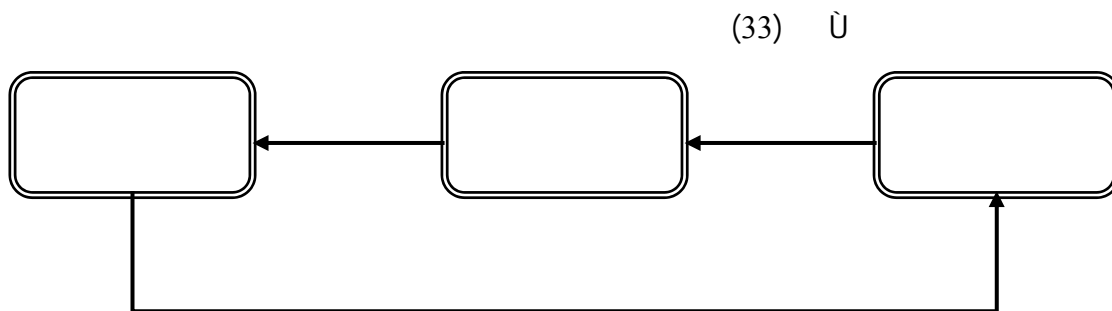
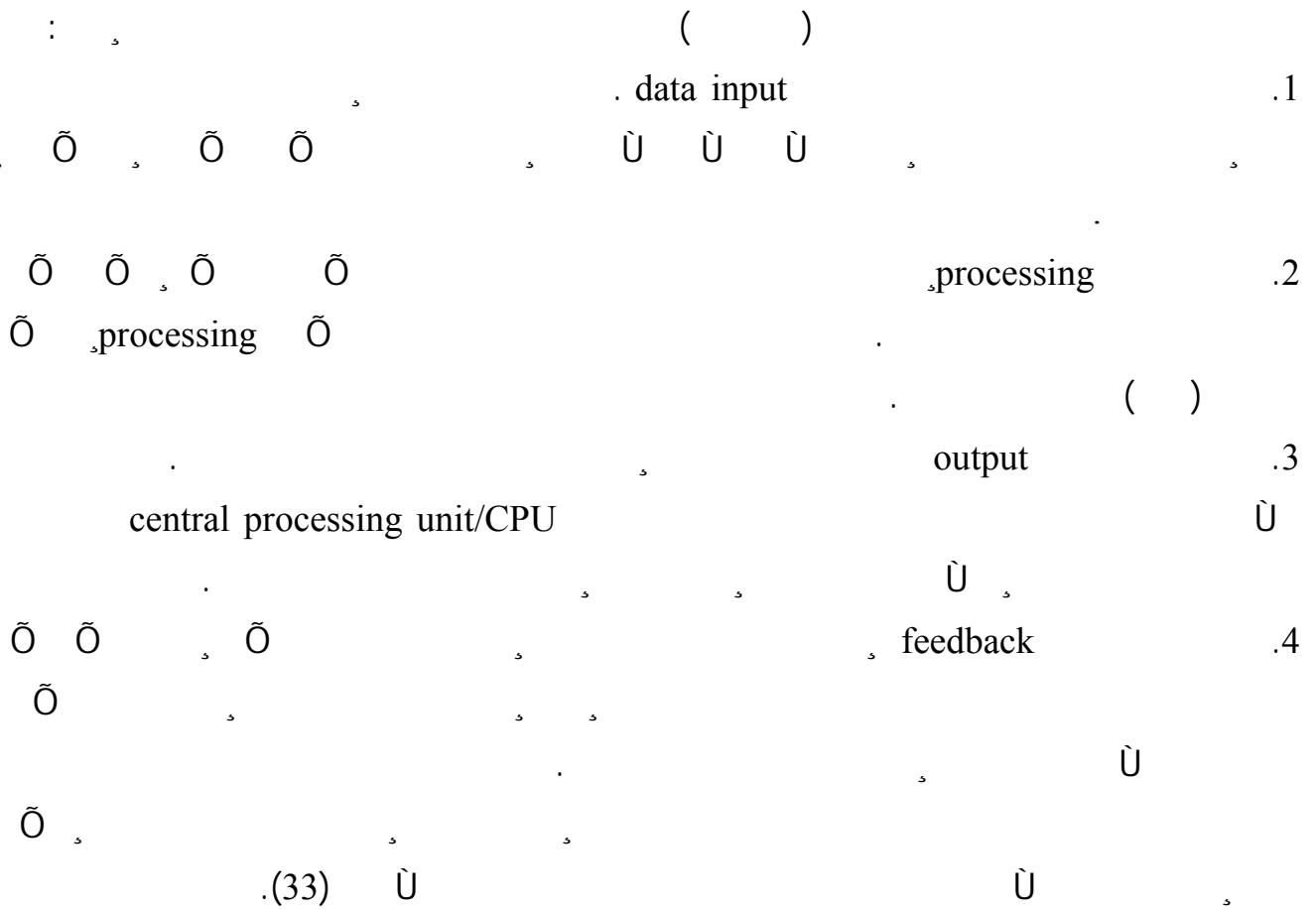
Ù

Ù

Ù

.O'Brien

Information Systems Activities ⁽¹⁾ :



Ù Õ Ù Õ
Ù Õ Õ

:(34) Ù

Õ Õ Õ : Input of data resources Ù .1

Ù Ù Ù
Ù

Ù ,machine-readable medium Ù
sales transactions Ù

Õ Õ Ù
Ù Õ Õ .optical scanning devices Ù

Õ Õ Ù Ù

Data :Processing of data into information .2

Comparing Õ Calculating Õ :Ù Õ
Õ Ù Summarizing , Classifying , Sorting
Õ Õ Õ Õ Õ ,Manipulate ,Analyze Ù ,Organize
Õ Õ ,Information

Ù : Output of information products .3

Ù
Ù :Ù

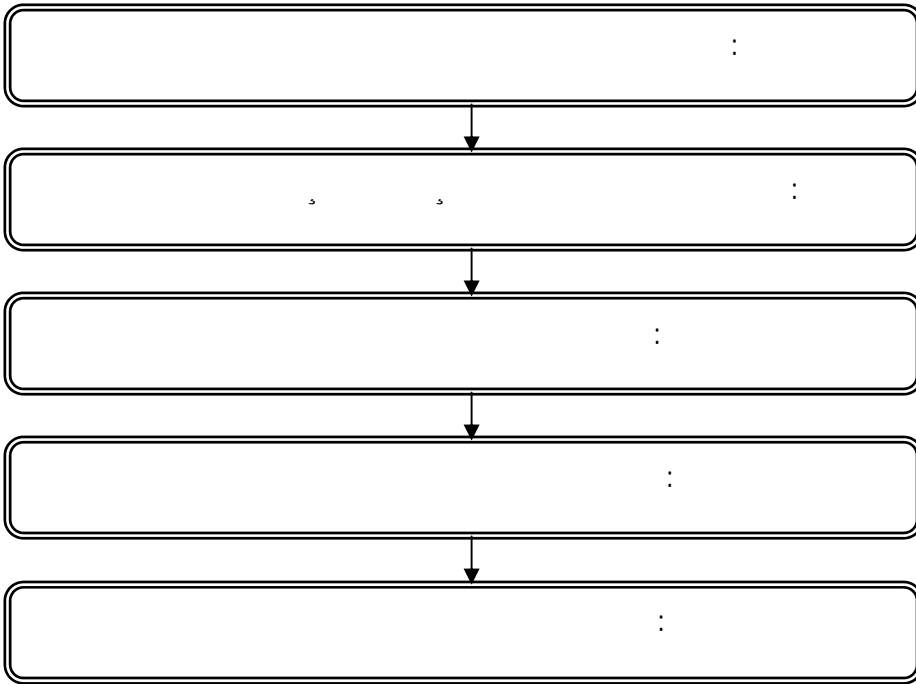
Õ Õ Ù
Õ Ù

Õ Õ :Storage of data resources .4

Õ Ù Ù Ù

Õ Õ Õ

Ù (34) Ù



28 ,2005,

Information systems serve each level organizational hierarchy

Ù

Ù

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:(35) Ù

Manufacturing/production systems -
 shipping/receiving purchasing scheduling
 operations functions engineering
 purchase order systems machine control systems
 quality control systems

Finance/accounting systems -
 budgeting billing general ledger
 cost accounts : accounting functions
 funds management systems receivable/payable systems
 general ledger systems

Human resource systems -
 personnel records compensation benefits
 labor relations payroll functions training
 benefit systems systems employee records /
 career path systems systems compensation

Transaction processing systems basic activities:

Data entry
 Database maintenance processing
 Inquiry processing and report generation
 Data entry

Transaction processing -
 Batch processing
 Real-time Online processing processing

Database maintenance -

U

O O O O O

:Document and report generation -

Paychecks O Purchase orders U
O O O O O U .and sales receipts

Payroll register, or edit reports

O O O O

: Inquiry processing -

Database O
O O O O management query languages
O O O O U U

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O O U

(2005-99,)

U MIS TPS

(102-99, 2005,) On-Line Analytical Processing Systems •

O O TPS OLAP U

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Õ Õ Õ TPS OLAP
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DBMS

(108 , 2005,)

DSS

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Õ MBMS Õ

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DBMS

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.EIS

.MIS

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(2)

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Database Õ Õ Ù

Model Base Management Õ Õ Õ Õ Management System

Interface-Dialogue Management Subsystem Õ Õ Subsystem

Õ Õ Ù Ù

Ù

(Dialogue, Data, and Modeling,)

Õ Õ

Ù DSS

Ù

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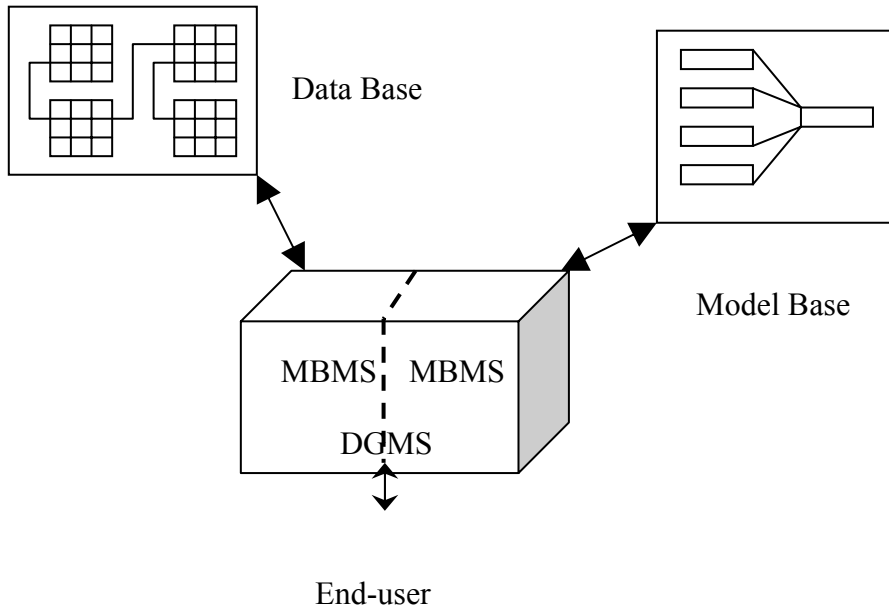
(38) Ù

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Ù

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(38) Ù



Source: Sprague H., McNurlin C. (1998). Information System Management in Practice, NJ: Prentice-Hall, 4th. P, 369.

:management information systems

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(74 , 2005,)

aggregate data

Interactive

Projections

5 year operating plan:

incorporate

.DSS

MIS

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Types of Information Systems: specialization

:(96-90 , 2005,)Ù

Marketing Information Systems/MkIS

-

Geographic Information Systems/GIS

-

Accounting Information Systems

-

Library Management Systems/LMS

-

Computer Information Systems/CIS

-

:Marketing Information Systems/MkIS

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sales Õ Õ Õ

. activities

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:Geographic Information Systems/GIS

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Õ layering demographic data Õ Õ Õ

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Library Information	Õ	Õ	Õ	:ÙÕ	
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.CIS

:Expert Systems

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. (1 : 2005 ,)

Artificial Intelligence Oriented

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.(126, 2001 ,)

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Knowledge Base Information System

Information Õ

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Knowledge Base System

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.(120 ,2005 ,)

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(121, 2005,) :

Explicit and Tacit Knowledge .1

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Ù

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Expert System Structure

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Õ Long-term Memory Ù

Domain Knowledge Ù

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(Chen & %70

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(Klay, 1994)

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(Under-Utilized)

(Loukis, 1994).

1991

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(1999,)

" Ù 1995

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Ù %8.8 , Ù %6.3 Ù %7.5 Ù %34.5 , Ù

%61.7 -

Ù %96 , %65.2 -

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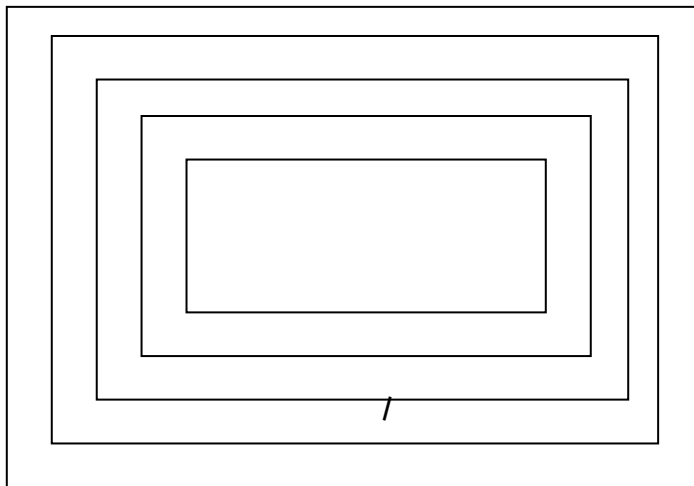
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:(41) ù

(41) ù



Source: <http://www.cybrarians.info/journal/no9/info-securty.htm>

2. محمد محمد الهادي. توجهات أمن وشفافية المعلومات في ظل الحكومة الإلكترونية .- cybrarians journal - ع 9 (يونيو 2006) .- الأحد, 11 فبراير 2007 >الأحد, 11 فبراير 2007 .- متاح في: <http://www.cybrarians.info/journal/no9/info-securty.htm>

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Encryption

Ù Ù

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3. محمد محمد الهادي. توجهات أمن وشفافية المعلومات في ظل الحكومة الإلكترونية .- cybrarians journal - ع 9 (يونيو 2006) .- الأحد, 11 فبراير 2007, <الأحد, 11 فبراير 2007> .- متاح في: <http://www.cybrarians.info/journal/no9/info-securiry.htm>

4. www.itep.ae/Arabic/educationalcenter/edu_articles.asp

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Identification and Authentication : .1

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.Password Õ Õ : -
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1. محمد محمد الهادي. توجهات أمن وشفافية المعلومات في ظل الحكومة الإلكترونية. - cybrarians journal - ع 9 (يونيو 2006). -
الأحد, 11 فبراير, 2007 >الأحد, 11 فبراير, 2007<. - متاح في: http://www.cybrarians.info/journal/no9/info-securty.htm

2. www.itep.ae /Arabic/educationalcenter/edu_articles.asp

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1. محمد محمد الهادي. توجهات أمن وشفافية المعلومات في ظل الحكومة الإلكترونية .- cybrarians journal - ع 9 (يونيو 2006) .- الأحد, 11 فبراير 2007, <الأحد, 11 فبراير 2007> .- متاح في: <http://www.cybrarians.info/journal/no9/info-securty.htm>

2. <http://www.c4arab.com>

3. http://www.arablaw.org/Download/Information_Security.docsource

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Ù (Crackers , Hackers

Bugs Ù Ù %100

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1. محمد محمد الهادي. توجهات أمن وشفافية المعلومات في ظل الحكومة الإلكترونية .- cybrarians journal - ع 9 (يونيو 2006) .- الأحد, 11 فبراير 2007 >الأحد, 11 فبراير 2007< .- متاح في: <http://www.cybrarians.info/journal/no9/info-securty.htm>

Accountability : (1)

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Awareness : (2)

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Integration : ù (6)

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Timeliness : (7)

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Reassessment : (8)

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Democracy : (9)

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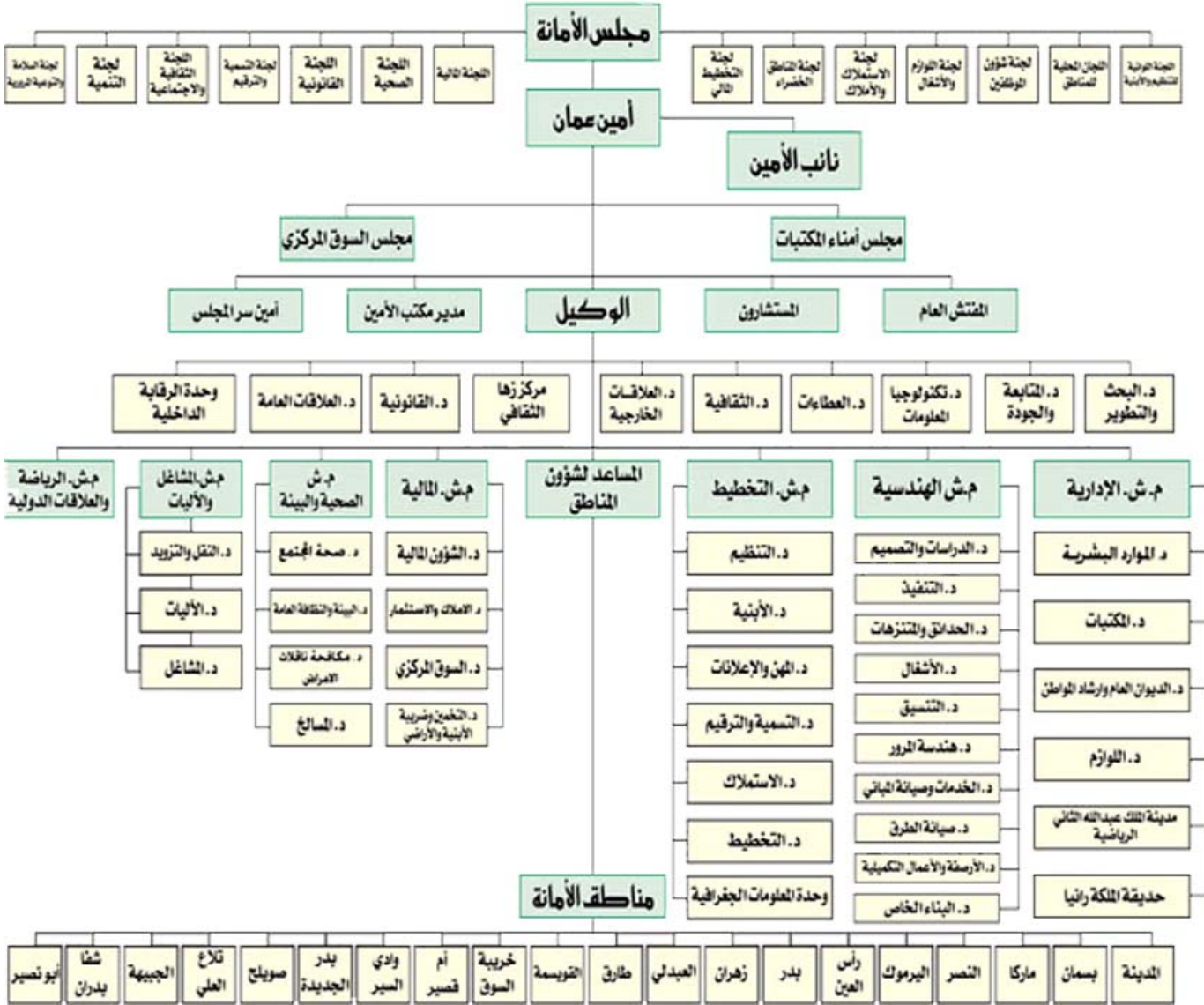
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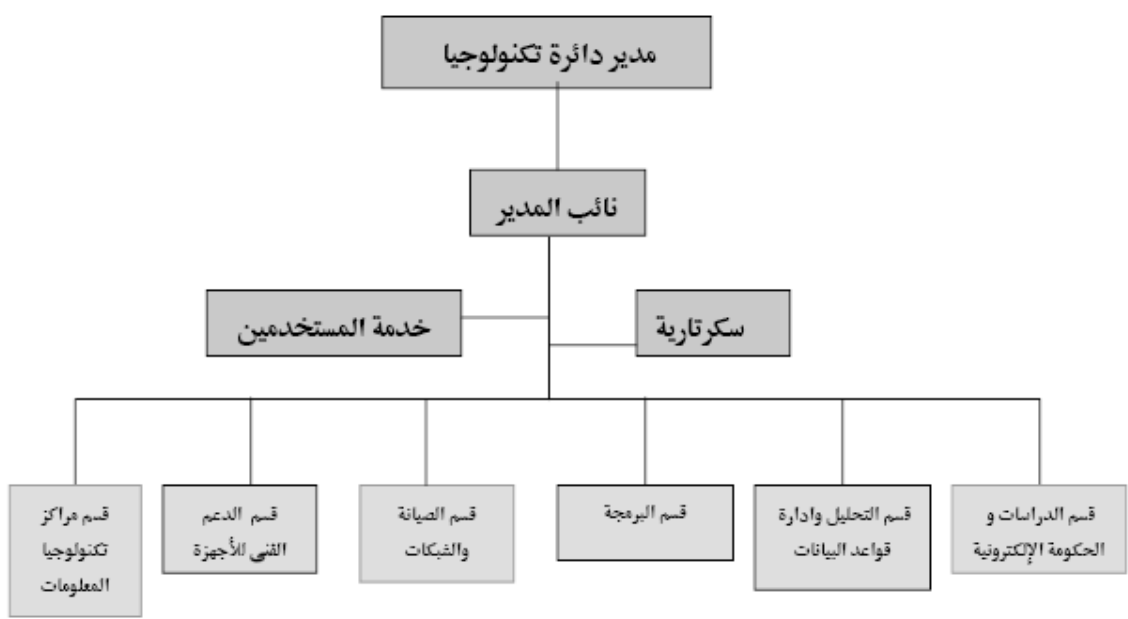
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1995

www.ammancity.gov.jo

٥ ٥ ٥ ٥ ٥
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٥ (45) ٥



(45) ٥

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(SWOT ANALYSIS)

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Õ (7) Ù
Õ ' Õ (%90) Ù
Õ Õ % (10)
Ù
(2000) (2000)

(50-41) (% 22.5)
Õ (%15) (%27.5) (40-31)
(%35) Ù 30 (60-51)
Ù 30 Ù Ù

Õ Õ Ù
(%27) (%51)
Õ Õ Õ (%5)
(%2) Ù (%15)

Õ Õ
Õ Ù Ù
Ù

200 =

(7) ù

(%)			
90	180		
10	20		
35	70	ù	30
27.5	55		40-31
22.5	45		50-41
15	30		60-51
2	4		
15	30		
50	100		ù
27	54		
5	10		
7.5	15		
2.5	5		
30	60		
60	120		
35	70	ù	10
22.5	45		15-11
17.5	35		20-16
15	30		25 -21
10	20		25

õ õ ù

(1996) ù ù

õ õ

ù

(1999)

õ õ

(1993)

ù

õ (%60)

(%30)

õ õ ù

(%2.5) (%7.5)

(%90)

Õ Õ Õ (%35) Ù
 Õ Õ Õ Ù 10
 Õ (20 - 16) Õ Õ (%22.5) (15 - 11)
 Õ (%15) (25-21) (%17.5)
 Õ Õ Ù (%10) 25
 Õ Õ Õ

Ø :

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1

:Ø Ø

Õ Ù Ù (8) Ù Ù

(200 =)

Ù

(8) Ù

		(%)	(%)	(%)		
0.81	4.1	75.2	20.6	4.2	Õ Õ	.11
0.85	2.10	9.4	20.5	70.1	Ù	.19
0.77	3.85	85	9.2	5.8		.20
	3.35					
1.15	2.25	5	14.8	80.2	Õ Ù	.12
1.00	2.45	13.9	31.1	55		.13
	2.35					
1.10	2.30	13.1	20.1	66.8		.14
0.86	2.25	4.5	15.4	80.1	Õ Õ	.15
0.90	3.80	87.1	10.6	2.3		.16
	2.78					

:Ø

(%75.2) (8) ù

Õ (%4.2) ù

ù

ù

Õ Õ (%9.4)

Õ Õ ù (%70.1)

.(2.10)

Õ (% 85) (8) ù

(%5.8)

ù (3.85)

.1 ù

ù

ù

Õ Õ Õ ù

:

ù (%80.2) (8) ù

(%14.8)

(2.25)

(%5)

ù 1

ù

ù

ù

.Harrison (1992) ù (2001)

Õ (%55) ù

(%13.9)

(%31.1)

ù

.(2.45)

:

Õ (%66.8) (8) ù

Õ Õ Õ (%81.1) ù (2.39)

Õ Õ

(1992) ù (% 4.5)
 Õ (%87.1) (8) ù Harrison
 Õ Õ Õ (%2.3)
 .(3.80)
 Õ
 Õ ù
 Õ Õ
 Õ ù AI – Gamdi (1998); Dean (1996)

:(
 (% 70) ù (% 69) (% 25) ù (% 25) ù
 Õ ù ù

1 : Ø

ù (9) ù

ù

(200 =)

ù

(9) ù

(%)		(%)		
2.5	5	97.5	195	Internet -1
20	40	80	160	Electronic Archive Systems -2
25	50	75	150	Self Services Machines -3
57.5	115	42.5	85	Electronic Commerce Payment System -4
20	40	80	160	Extranet -5
10	20	90	180	Audio Conferences& Teleconferencing and videoconferencing -6
5	10	95	190	Electronic mail -7
17.5	35	82.5	165	Voicemail -8
12.5	25	87.5	175	Electronic data interchange ù -9
1	2	99	198	Intranet -10

0	(%99)	(%80)	(%97.5)
0			
0 0		0	0
		(12) 0	(13) 0 0
0 0	Electronic Archive Systems		
			(% 80)
% 90)			(
			(% 10)
0			
(% 75) 0	Self Services Machines		
0	Electronic Commerce Payment System		
			(% 42.5)
0	Voicemail	Electronic mail	
	(% 42.5)	(% 85)	
	Electronic data interchange		0
			(% 87.5)
0 0	0	0	(15) (9)
0 0 0 0		0	:
			0
			1
0		0	(10) 0
0		(10) 0	

Ø (%99.5) (Password) (%99)
 Ø (Anti-virus Programs)

Ø Ø Smartcard Ø (%85)

(10) Ø Ø
 (200 =) Ø Ø

				Ø	
(%)		(%)			
1	2	99	198	Password	-1
15	30	85	170	Smart Card	-2
2.5	5	97.5	195	Plastic ID Card	-3
5	10	95	190	Biometric (Ø)	-4
45	90	55	110	Communication Control Systems Ø	-5
25	50	75	150	Data Control Systems	-6
0.5	1	99.5	199	Antivirus Programs	-7
30	60	70	140	Encryption Ø	-8
1.5	3	98.5	197	Fire Wall	-9

Ø Ø Ø Ø Ø (%75)
 Ø Ø Ø Ø Ø Ø (% 62.5) (Data Control Systems)
 Ø Ø Ø Ø (% 70) (Communication Control Systems)
 (Encryption)

Ø
 Ø Ø
 Ø

(Firewalls) (%98.5)
 Ø

policies

Ø
 Ø

0 0

(%97.5)

(Plastic ID Card)

(Plastic ID Card)

0

0

(Firewalls)

0 0 0

Antivirus Programs

Smart Card

0 0 0

0 0

0 0 0

0

0 Biometrics

(%95) (10)

0

0 0 0 0 0 0 0

Biometrics

0

0 0 0

0 0 0 0

1

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(11)

(11)

(200 =)

(%)		(%)			
15	30	85	170	Transaction Processing System	-1
10	20	90	180	Management Information System	-2
55	110	45	90	Executive Support System	-3
65	130	35	70	Decision Support System	-4
95	190	5	10	Expert System	-5
60	120	40	80	Knowledge work System	U -6
5	10	95	190	Office Automation System	() -7

Office Automation System
 Paperless Office
 Integrated software
 Redesign of work flow
 calendars

knowledge work systems

transaction processing systems

Decision-support systems
 Decision-support systems

management information systems

Executive support systems

(200 =)

Ù

(12) Ù

		(%)	(%)	(%)	
1.21	2.59	19.2	15.3	65.5	Õ Õ Ù .1
1.05	3.40	55	30.3	15.7	Õ .2
1.11	3.30	44.1	35.7	20.2	Õ .3
0.92	3.00	25.1	29.5	45.4	.4
0.90	3.98	84.3	10.5	5.2	Õ .5
1.04	3.40	60.3	30.5	9.2	.6
	3.28				

Õ Õ Õ Õ
 Õ Õ (% 55)
 .(3.40)

Õ Õ (%44.1)
 Õ Õ Õ Õ
 (3.30)

Õ Õ Õ Õ (% 25.1)
 (3.00)

Õ (%84.3)
 Õ (% 5.2)
 Õ

.Harrison (1992); Ashill & Jobber (2001) (1996) Ù (1991)

Õ Õ (12) Ù
 (%60.3) (% 15.7)

Winterman (1996) Õ (1993)

(3.40)

, (1998); Ashill & Lobber (2001);

Õ Õ

Ù ù

Õ

, (3.26)

.1

Õ

Ù

(13) ù

(200 =)

Ù

(13) ù

		(%)	(%)	(%)	
1.00	2.4	9.6	15.1	75.3	Õ ù .7
0.95	2.25	8.4	15.4	76.2	.8
0.86	3.88	75.1	15.3	9.6	Õ ù Õ Õ ù .9
					: .29
0.85	4.1	89.1	7.3	3.6	-
0.85	4.3	75.1	15.7	9.2	Ø -
0.70	4.31	92	5	3	-
0.75	4.00	80.7	15.2	4.1	Ø -
0.85	3.98	70.2	20.5	9.3	Ø -
0.96	4.25	75.5	15.1	9.4	-
0.80	4.55	85.1	10.4	4.5	-
0.60	4.4	76.1	10.0	13.9	-
0.71	4.2	80.2	15.1	4.7	-
	3.89				

(%75.3)

Ù

(%9.6)

.Winterman (1998); Sherwood – smith & Remenyi (1999)_ (1990)

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(%76.2)

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(%75.1)

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(% 9.6)

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(3.88)

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Godman (1993)

(% 89.1)

(13) Ù

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(% 3.6)

(2000)

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.Sherwood – smith & Remenyi (1999)

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(%75.1)

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(%9.2)

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.Sherwood – smith & Refmenyi (1999)

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(% 92)

(13)

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Õ Õ (%3)

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Sherwood – smith & Refmenyi (1999)

(%80.7) (13)

(% 4.1)

(2000)

(%70.2)
(% 9.3)
Winterman (1998).

(%9.4) (% 75.5)

(1990)

(% 85.1)

(2000)

(% 80.2) (13)

Kumar & Plavia (2001)

(%76.1)

(% 10)

Sherwood & Winterman (1998) ¹ (2000) Remenyi (1999)

(3.5)
1

(3.89)

(14) (% 55.1)
(2.55)

(% 57.2)
(2.08)

(200 =)

Ù

(14) Ù

		(%)	(%)	(%)		
0.97	2.55	18.3	26.6	55.1	Õ	Õ .10
0.75	2.08	12.5	30.3	57.2	Ù	Ù .22
	2.32					
0.93	3.60	70.1	20.8	9.1	Õ	Ù .21
	3.60					

Õ (% 70.1) Ù

Õ Ù

Õ Õ (% 9.1)

Õ Ù (% 3.60)

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Õ Õ (2000) Õ Ashill & Jobber (2001) ¹ (1995) Õ

Ù Ù

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Ù

Ù

Õ (15) Ù

Õ Õ (% 74.6)
 Õ Õ (% 15.1)
 Õ Õ
 Õ Õ (%77.1)
 Õ Õ (9.7) Õ Õ
 .(1990) (%13.2)
 Õ Õ Õ (% 72.1)
 Õ Õ (%7.9) Õ Õ
 Õ Õ (%85.2) (15) Õ Õ
 Õ Õ (%4.6)
 Õ Õ (3.5) Õ Õ

(200 =)

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(15) Õ

		(%)	(%)	(%)		
0.60	4.45	74.6	20.3	15.1	Õ	.30
0.71	4.40	77.1	13.2	9.7	Õ Õ Õ .Õ Õ	.31
0.82	4.10	72.1	20	7.9	Õ .Õ	.32
0.80	4.34	85.2	10.2	4.6	Õ	.33
0.61	4.45	90.7	10	4.3	Õ . Õ Õ	.34
0.63	4.47	87.3	8.7	4	Õ	.35
1.15	2.20	25.9	4	70.1		.36
0.84	4.10	81.1	15.7	3.2	Õ Õ Õ Õ Õ	.37
	4.06					

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(1990)

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(% 90.7)

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(% 10)

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(3.5)

(1995)

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(%25.9) (15) U

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(%4) o o

(2.20)

(%70.1)

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(%81.1)

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(4.10)

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. Goodman (1993)

(1996) U

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(4.06)

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(16) U

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(16) ù

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		(%)	(%)	(%)	
					ø
0.85	4.28	80.1	15.2	4.7	õ õ ù õ .23 ù
0.87	1.60	8.1	16.6	75.2	õ õ õ õ .24
0.74	1.50	5.2	9.8	85	. .25
0.89	1.52	4.7	15.1	80.2	. .26
	2.225				
1.43	2.99	55.1	30.3	14.6	õ õ ù ù .27
1.01	3.95	91.2	6.1	2.7	õ õ õ .28
	3.47				

õ õ (%80.1) õ õ

ùõ

(% 4.7) ù ù
(42.8)

õ õ (% 85)

õ (% 75.2) (% 5.2)

õ õ

(% 8.1)

õ õ

õ

õ (2.225) ù

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(16) õ ù õ õ õ õ

õ õ ù (%55.1)

(19) ù

(200=)

ù ù ù

Ø	% 10.020 = Ø	0.800 = Ø
Ø		
0.730	.	ù .7
0.684		.8
0.473		ù .9
	:	.29
0.599	.	-
0.530	ù	-
0.773		-
0.760		ù -
0.499		ù -
0.570		-
0.490		-
0.600		-
0.775	.	-

: Ø

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õ

ù

(0.615) (0.450) ù ù
 (% 6.955) õ ù (0.40) ù
 õ õ (0.696) - ù
 õ ù õ ù

(20)

(20) ù

(200 =)

ù ù ù

Ø	% 6.955 = Ø	0.696 = Ø
Ø		
0.510	ù Õ Õ	.10
0.450		ù .21 ù
0.615	Õ	ù .22 ù

ù

(22 10)

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ù

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ù ù

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(0.40)

ù

(0.706)

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(0.767)

(0.420)

ù

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ù

ù

(0.40)

(21)

ù

(%6.733)

ù

ù

ù

(200 =)

Ù Ù Ù

(21) Ù

Ø	%6.733 = Ø	0.706 = Ø
Ø		
0.525		.11
0.660		Ù .12
0.620		.13
0.590		.14
0.520		.15
0.495		.16
0.002		.17
0.767		.18
0.515	Ù	.19
0.420		.20

Õ Ù Ù

(18 , 14 , 13 , 12)

Õ Õ

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(0.593)

Õ Õ Õ (0.750)

(0.445)

Ù

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Õ Õ (%6.223)

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Õ Õ Õ

Ù

(24)

(22)

Ù

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(200 =)

Ù Ù Ù

(22) Ù

Ø	6.223 = Ø	0.593 = Ø
0.445	Ù	Ù .23
0.750		.24
0.660		.25
0.565		.26
0.581	Ù Ù	.27
0.525		.28

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(0.40) Ù

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Ù Ù Ù

(23) Ù

Ø	5.250 = Ø	0.757 = Ø
0.650		.30
0.701	Ù	Ù .31
0.710		Ù .32
0.659		.33
0.780	Ù Ù	.34
0.685		.35
0.410		.36
0.325		.37

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(34 , 32 , 31)

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Õ Õ Õ , (Password) Õ Õ

Õ Õ , (Data Control Systems) , (Antivirus Programs)

Õ Õ Encryption , (Communication Control Systems) Õ

Õ Õ Õ File Walls , Õ

. (Smart Card)

0
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0 0 0 0 0
0

0
0 0 0 0
0 0 0 0
0 0 0 0
0 0

0 (%99) (%80) (%97.5)
0
0 0 0 0 0 0 0 0 0
(.9) 0 (10) 0 0

0 0 Electronic Archive Systems (% 80)

Audio videoconferencing 0 0
0 (% 90) **Conferences& Teleconferencing and**
(% 10)

0
(% 75) 0 Self Services Machines

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Password -1

Smart Card -2

Plastic ID Card -3

Biometric (Ù) -4

Communication Control Systems Ù -5

Data Control Systems -6

Antivirus Programs -7

Encryption Ù -8

Fire Wall , Ù -9

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Transaction Processing System -1

Management Information System -2

Executive Support System -3

Decision Support System -4

Expert System -5

Knowledge work System Ù -6

Office Automation System -7

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 \bar{o} \bar{o} .
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 \bar{o} \bar{o} \bar{u} \bar{u} \bar{u} \bar{u} \bar{u} \bar{u}

\bar{u} \bar{u} (2)

\bar{o} \bar{u} (3)

\bar{o} \bar{o} \bar{o} \bar{u}
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\bar{o} \bar{o} \bar{u} \bar{u} (4)

\bar{o} \bar{u} \bar{u} (5)

(6)

\bar{u} \bar{u} (7)

\bar{u} (8)

\bar{u} \bar{u} \bar{u} (9)

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- .5

والحمد لله رب العالمين، أن وفقنا لإتمام هذا العمل.

Õ " " (2004)	.1
Ù " Ø " (2004)	.2
" " (2007)	.3
" " (2006)	.4
Ù " Ø " (2005)	.5
" " (2005) Ù	.6
Õ Õ " "	.7
Õ " Ô Ô Ô " (2002)	.8
" (1998)	.9
Ù " Ø " (2002)	.10
" "	.11
" Ø " (2000)	.12
" " (2001)	.13
" " (1999)	.14
Ô " (2000)	.15
Ù " "	
(2) 31 " : " (1998)	.16

	(1997)	.17
	(1998)	.18
	(2007)	.19
Õ	(1998)	.20
: Õ ÙÕ	Ø (1984)	.21
	(1987)	.22
Õ " Ô Ô	" (1995)	.23
	(1) ()22	
Ô Ô Ô Ø	" (1990)	.24
	.1 (17) "	
Õ :	" (1998)	.25
Ù	"	
Ô	" (1999)	.26
Ù	"	
Ô	Ø " (1999)	.27
	"	
Ô - Ô - Ø :	(1985)	.28
	-	
	(1997)	.29
	(1998)	.30
Õ Õ Õ Õ :	Ø " (1995)	.31
	"	
	Ø (1996)	.32
9 Õ Õ MIS	(1993)	.33
Õ Õ	(1992)	.34
	Ø :	
	(1999)	.35
	Ù	

Ô :	"(1996) Û	.36
2 23	"	
Ô Ô . .	"(1997) Û	.37
.(1) 24	" :	
Õ Õ	(2001)	.38
Õ	(1996)	.39
"	Ø "(2000)	.40
Õ Õ Õ Ô	Ø (1993)	.41
Û :	Ø (1994)	.42
Ô Ô Ô Ô Ô	"(1990)	.43
"	Ø "	.44
Õ :	. 1990, Û , 17	.45
.(:) Ô	. 1998	.46
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. 2002 :	.	.47
. 1992 :	Ø :	.48
. 2000 :	.	.49
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. 1996 ,

(11) Õ : «. » , .54

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 $46 \square$ $45-41 \square$ $40-36 \square$

$10-6 \square$ \bar{U} $5 \square$: .3
 $16 \square$ $15-11 \square$

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		Transaction Processing System	-1
		Management Information System	-2
		Executive Support System	-3
		Decision Support System	-4
		Expert System	-5
		Knowledge work System	Ù -6
		Office Automation System	-7
		Data Base Management System	-9
		E-Payment	-10

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		Internet	-1
		Electronic Archive Systems	-2
		Self Services Machines	-3
		Electronic Commerce Payment System	-4
		Extranet	-5
		Teleconferencing and videoconferencing	-6
		Electronic mail	-7
		Groupware	-8
		Voicemail	-9
		Electronic data interchange	Ù -10
		Intranet	-11

Ù :

		Ø	
		Password	-1
		Smart Card	-2
		Plastic ID Card	-3
		Biometric (, Ù)	-4
		Communication Control Systems Ù	-5
		Data Control Systems	-6
		Antivirus Programs	-7
		Encryption Ù	-8
		Fire Wall . , Ù	-9

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	Ù
	Ù
Ù	
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1	Ù
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28	
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29	:
30	
30	
31	Ù
32	
34	
36	Ù

38	:Ø Ø
38	
39	:Ø
41	:Ù
46	:
49	:
49	:Ù
50	Ù :
50	Ù Ù :
51	:
51	:Ù
53	:
57	:
57	:Ù
59	:
60	() :
60	:Ù
62	:
63	() :
64	:
66	
67	: Ø
67	
67	:Ø
67	:Ù
69	:
69	:
71	Ù :
79	:

79		:Ù
81		:
82		Ù :
84		:
85		:
86		:
86		:Ù
88		:
91		:
92		:
94		:
95		:
96		:
97		
98		Ø : Ø
98		
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98		:Ù
101		:
104		:
107		:
108		:
108		:Ù
109		:
110		Ù :
112		:
114		:
115		:Ù
117		:

118		:
120	Ù	:
121		:
123		:
124		
125	: Ø	
125		
125		:Ø
125		:Ù
126		:
127		:
130		:
131		:
131		:Ù
134		:
135		:
137		:
137	Ù	:Ù
138		:
139		:
140		Ø :
141		:
145		:
148		:
150		:
150		:Ù
151	Ù	:
165		:
171		:

171		:Ù
173		:
173		:
175		:
175		
176	:	Ø
176		
176		:Ø
177		:Ù
179		:
180		:
182		:
183		:
183		:Ù
186		:
187		:
188		:
188		:Ù
190		:
191		:
192		:
192		:Ù
193		:
197		
198		Ø : Ø
198		:Ø
198		:Ù
202		:
204		:

207	(SWOT ANALYSIS)	Ù :
209		Ø
209		:Ù
211		Ù :
228		Ù :
235		:
235		:Ù
238		:
240		:
244		
244		
247		
250		
250		(1)

Ø

	Ø	Ø
33		.1
44		.2
45		.3
49		.4
54		.5
54		.6
55		Ù .7
55		.8
57		.9
96		.10
101		.11
106		.12
110		Ù .13
111		Ù .14
114		.15
116		Ù .16
117		Ù .17
118		.18
119		.19
119		.20
120		.21
123		.22
126		.23
128		.24
128	Loudon	.25
128	O'Brien	.26
133		.27

137	Ù	.28
141	Ù	.29
144		.30
146		.31
147		.32
148		.33
150		.34
151		.35
156		.36
157	Ù	.37
161		.38
170	Ù	.39
173		.40
179		.41
181	Ù Ù	.42
182		.43
203	Ù	.44
205	Ù	.45

Ø

	Ù	
31	-	.1
59		.2
72	Ù	.3
86		.4
102		.5
151		.6
210		.7
211	Ù	.8
213	Ù	.9
215	Ù Ù	.10
216	Ù	.11
219	Ù	.12
220	Ù	.13
224	Ù	.14
225	Ù	.15
227	Ù	.16
229	Ù Ù	.17
230	Ù Ù Ù Ù	.18
231	Ù Ù Ù	.19
232	Ù Ù Ù	.20
233	Ù Ù Ù	.21
234	Ù Ù Ù	.22
234	Ù Ù Ù	.23

