

B.S. 4 Years Program : First Semester - Fall 2021

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Time: 3 Hrs.	Marks: 60

Subject: Introduction to ICT

Paper: GE-161

Q.1. Give short answer to the following questions.

(15x2=30)

- 1. What is difference between System Software and Application Software?
- 2. What is meant by Expansion Slots?
- 3. Differentiate between Bandwidth and Throughput?
- 4. What are Registers? Which register is used to hold address of Next Executable Instruction?
- 5. What is Pipelining?
- 6. What is purpose of VeriChip?
- 7. What is Radio Frequency Identification (RFID) Readers?
- 8. What are Multimedia elements?
- 9. What is difference between HTML and XHTML?
- 10. How you will differentiate between Half Duplex and Full Duplex Transmission?
- 11. Name two commands used to create a file in Linux Terminal.
- 12. List the problems faced by humanity which could be solved using Information Technology.
- 13. Convert 1001110 in base 2 into a decimal number?
- 14. What is a Hot-swappable device?
- 15. What is the difference between a Bridge and Repeater?

#### Q.2. Answer the following questions.

(3x10=30)

- 1. List several types of networking hardware and explain the purpose of each.
- 2. Answer the following questions.

[5+5]

- a. Identify the major parts of a personal computer and enlist their features and examples.
- b. Explain the structure of Magnetic Hard Disks in terms of sectors, tracks, clusters, and cylinders.
- 3. Describe device and connection options for connecting to the Internet, as well as some considerations to keep in mind when selecting an ISP.

## UNIVERSITY OF THE PUNJAB Roll No. in Fig. First Semester - 2019 Examination: B.S. 4 Years Program

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PAPER: Introduction to Computing Course Code: IT-101 Part-I (Compulsory)

MAX. TIME: 15 Min. MAX. MARKS: 10 Signature of Supdt.:

Attempt this Paper on this Question Sheet only.

Please encircle the correct option, Division of marks is given in front of each question.

	Encirc	le the right answer, cut	ting and overwriti	ng is not allow	eu.	(IXIO-	=10)
1.	Before	e a disk drive can access an	y record, it has to ki	now the record's	disk addre	ss. Wha	ıt
	inform	nation does this address spe	ecify?				
	a)	Track number	b	) Sector number			
	c)	Surface number	d	All of these.			
	The d	isadvantages of DBMS are					
	a)	Increased size	b	Increased com	plexity		
	c)	High impact of failure	d	All of these			
	High I	level languages are easily u	nderstandable by				
	a)	Compilers	b	Computers			
	c)	Humans	d	All of these			
	Which	of the following is necess	arily nested tag in H	TML?			
		<li><li>&lt;</li></li>		<bl></bl>			
	c)	<ul><li><ul></ul></li></ul>	ď	<ol> <li><ol></ol></li> </ol>			
bio	Suppo which netwo	osc you have established a s the central link (bus) is ha rk is capable of receiving d	small network of 10 of If-duplex channel ru ata at 5Mbps. What	computers using	s. Each cor	nputer	in the
baro	Suppo which netwo compu	se you have established a s the central link (bus) is ha	amall network of 10 of If-duplex channel run ata at 5Mbps. What etwork?	computers using	s. Each cor	nputer	in the
	Suppo which netwo compu	ose you have established a set the central link (bus) is hat it is capable of receiving duters can receive over the note that it is that it is set in the	amall network of 10 of f-duplex channel rui ata at 5Mbps. What etwork?	computers using nning on 10Mbp is the maximum 10 Mbps 2 Mbps	s. Each cor data rate th	nputer	in the
	Suppo which netwo compt a) c)	ose you have established a set the central link (bus) is hat it is capable of receiving duters can receive over the note that it is that it is set in the	amall network of 10 of f-duplex channel rui ata at 5Mbps. What etwork?  by dy	computers using nning on 10Mbp is the maximum 10 Mbps 2 Mbps	s. Each cor data rate the channel.	nputer	in the
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	Supposition of the supposition o	ose you have established a set the central link (bus) is hat the central link (bus) is hat the intersection of receiving dutiers can receive over the notation of the following is the transmination of the following is not a type of the following is	amall network of 10 of f-duplex channel rurata at 5Mbps. What etwork?  by dission capacity of a	computers using uning on 10Mbps is the maximum 10 Mbps 2 Mbps communications Network proto Transmission rowing will resul =Max(A1:C1) =C1+(A1-A1/A Cletcted text. Quick Access T None of these	channel.  col  mode  t 3 in Exce  1)	nputer nat thes	in the
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First Semester - 2019 Examination: B.S. 4 Years Program

PAPER: Introduction to Computing

	3
Roll No	
MAX. TIME: 2 Hrs. 45 Mi	n.

MAX. MARKS: 50

## ATTEMPT THIS (SUBJECTIVE) ON THE SEPARATE ANSWER SHEET PROVIDED

#### **QUESTION #2** [20 marks]

#### Write short answers to all of the following questions:

- 1. What is response time with respect to multiprocessing?
- 2. How a worm and a virus are different from each other?
- 3. Briefly explain the term router.
- 4. What is a firewall?

Course Code: IT-101 Part - II

- 5. Differentiate between impact and non-impact printers.
- 6. What is risk, vulnerability and threat in terms of cyber security?
- 7. List three e-commerce business models.
- 8. What is data redundancy in the context of database management system?
- 9. What is communication protocol?
- 10. List some classical applications of Artificial Intelligence.

#### PART - III (Subjective)

QUES	TION	#3				[10 marks]
a)	What	is virtual memory and	I how it works?			[4]
b)	Discu	ss the following comp	outer memories:			[6]
	î.	RAM				
	11.	ROM				
	iii.	Cache memory				
	iv.	Registers			- , - 4	
QUES	TION	# 4			1	[10 marks]
a)	Expla	in the following types	of programming err	ors with example	es of each:	[5]
	i.	Run-time error				
	ii.	Syntax error				
	iii.	Logical error				

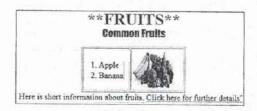
- Discuss the following LAN topologics with respect to performance, fault tolerance and scalability.
  - i. BUS
  - ii. Star
  - iii. Mesh
  - iv. Ring

#### **QUESTION #5**

[10 marks]

- a) Calculate pay of an employee based on the hours worked. The input includes, the employee's total hours worked this week and their hourly pay rate. The employee is to be paid their basic wage for the first 40 hours worked and time-and-a-half (i.e. 50% more) for all hours above 40 (overtime pay). Output the regular pay, overtime pay, and total pay for the week on the console. If the employee worked 40 hours or less, do not output any information about overtime pay.
- b) Write HTML code to produce the following:

[5]



- 1. Here, the text "Fruits" should be a first level heading and has green color.
- 2. Next line is in center. It has blue color, font-size 20 and in "impact" font.
- Next a table with 1 row and 2 columns with border. Column one has list. Column two has an image "fruit.jpg" with width and height 100.
- 4. Next line is simple but contains a hyper link to page https://fruits.com

First Semester - 2019

# Examination: B.S. 4 Years Program (Clash)

PAPER: Introduction to Computing Course Code: IT-101 Part-I (Compulsory) MAX. TIME: 15 Min.

MAX. MARKS: 10

Signature of Supdt.:

Roll No. in Fig.

Attempt this Paper on this Question Sheet only.

Please encircle the correct option. Division of marks is given in front of each question.

This Paper will be collected back after expiry of time limit mentioned above.

1	. The basic storage unit in memory is					
	a) Megabyte	b) Byte				
	c) Address	d) Gigabyte				
2	. Which of the following is not advantage of mag					
	a) Large amount of data can be stored	b) Cost per bit storage is low				
	c) Can be erased & reuse many times	<ul> <li>d) Reading large block of sequential data is easy</li> </ul>				
3	. Which of the following is not advantage of option	cal disks:				
	a) Have long data storage life	b) Cost per bit storage is low				
	c) Can be erased and reused many times	<li>d) Reading large block of sequential data is easy</li>				
4	In PowerPoint, is the process, how a	elide will appear after provious dide				
	a) Format	b) View				
	c) Animation	d) Transition				
2	A is a collection of progra extract information from a database.	ms that enables users to store, modify an				
	a) Database management system	D O				
	c) File server	b) Operating system				
	The server	d) Webpage				
6	A node in a computer network refers to all of fol	llowing except				
	a) Workstations	b) Routers				
	c) Hubs	d) Cables				
7.	Which of the following are some of the importan	nt uses of computer networks?				
	a) Information sharing	b) Resource sharing				
	c) Backup and support	d) All of these				
8	In HTMLtags are used to create a table column.					
	a) a)					
	c) <tc> </tc>	b)				
	0) 10 10	d)				
9.	In flowcharts symbol is used to	taka inputa and disala				
	a) Diamond	take inputs and display outputs. b) Rectangle				
	c) Parallelogram	d) Square				
	Carlotte and the second second	u) Square				
	10. In HTML, tag is used to cr	eate a drop down list.				
	a) list	b) input				
	c) dropdown	d) select				

First Semester – 2019
Examination: B.S. 4 Years Program
(Clash)

PAPER: Introduction to Computing Course Code: IT-101 Part - II

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Roll No	. :
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MAY TIME: 2 Hrs 45 N	Ain.

MAX. TIME: 2 Hrs. 45 Min. MAX. MARKS: 50

## ATTEMPT THIS (SUBJECTIVE) ON THE SEPARATE ANSWER SHEET PROVIDED

QUE	STION#2	[20 marks]
Writ	e short answers to all of the following questions:	
1.	Briefly explain the term Ergonomics.	
2.	What is the purpose of cache memory in a computer system?	
3.	17 700 10 10 110 1	
4.	depres and full-duples transmission.	2
5.	the state of the s	
6.	Briefly explain the concept of pipelining.	
7.		
8.	Write the steps that a CPU takes while executing a programs.	
9.	Explain the term "primary key" in database and why it is important for a	able?
10	. What is data dictionary?	aut.
	PART – III (Subjective)	
QUE	STION # 3	[10 marks]
a)	Discuss ethics in computing with the focus on user, programmer and profe	essional
	computing issues.	[5]
b)	Explain various database models in detail.	[5]
QUES	TION # 4	[10 marks]
2)	Explain the physical structure of the second	
b)	Explain the physical structure and data organization of a magnetic disk.	[5]
0)	Discuss different types of communication media.	[5]

#### QUESTION #5

- a) Write a program that takes any number of digits from the user, and combines them in the
  form of one integer variable. The program should first input the number of digits to be
  taken. Then inputs the digits one by one and calculates the resulting integer value. [5]
- b) Write HTML code to produce the following output:

  Here, the text "Programming Languages" is a first level heading in Cambria font and is centered aligned. The text "Following are few examples of programming languages:" is a regular paragraph followed by an ordered and unordered list. The table with three columns and four rows where first row is table headings and rest is content. The last line contains a hyper link "click here" to https://en.wikipedia.org/wiki/Programming\_language.

# **Programming Languages**

Following are few examples of programming languages:

- 1. Low Level Languages
  - Machine language
  - Assembly language
- 2. High Level Languages
  - C++
  - Java

Language	High Level	No Yes	
C++	Yes		
Assembly	No		
Java	Yes		

For more information on programming languages click here.



B.S. 4 Years Program : First Semester - Fall 2021

Paper: Introduction to Computing Course Code: IT-101

Roll No		:
Time: 3 Hrs.	Marks: 6	0

(15x2=30)

1. List six types of computers that are designed for use by a single person.

QUESTION # 1. Give short answers of the following:

- 2. How does OCR software translate scanned text into text that you can edit?
- 3. Describe a specific advantage of some new photo printers.
- 4. Describe the role of the computer's system clock?
- 5. What are average access times for hard disks?
- 6. Name five special purpose ports and write the use of each.
- 7. Why is task switching a necessary feature of a multitasking operating system?
- 8. List four benefits that networks provide to their users.
- 9. How are Internet newsgroups organized?
- 10. What is the primary difference between an intranet and an extranet?
- 11. What is the difference between a spreadsheet and a worksheet?
- 12. What are common data types of a field in a database?
- 13. Define green computing.
- 14. What are the steps of system development cycle?
- 15. Define an information system. Why do we use it?

Give brief answers of the followings.

(3x10=30)

[10 Marks]

a) In context of resource allocation, how does an operating system manage memory? [5]

- b) Explain following terms with respect to computer security.
  - b. Denial of Service a. Piggybacking
- c. Data diddling

a) Discuss different LAN components.

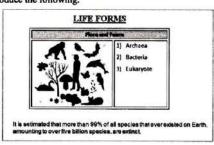
[10 Marks]

b) Define DBMS. What are the advantages of Database approach?

[5]

[10 Marks] a) Write a program that calculates either area of a rectangle (area = Length \* Width) or the area of a triangle (area = 1/2 \* base \* height) after prompting the user to type the first

character of the figure type (R or T). b) Write HTML code to produce the following. [5] [5]



#### Here,

- 1. The text "Life Forms" is a first level heading.
- 2. Next is a table with border and a header row containing center aligned "Flora and Fauna".
- 3. First column of table contains an image "life.jpg" with width and height 150.
- 4. Second column of table has an ordered list only.

100	ımber	First Name	Last Name	Polisis
	1	Mohsin	Riaz	50
	2	Sohaib	Javaid	100
	3	Asim	Rasool	150
	4	Zeeshan	Shabbir	200
	5	Äli	Ahamd	250

Write the html code for above table by using following attribute values:

Page title = table Cellspacing = 6
Cellpadding= 10 Table color = Blue

Table alignment = center

# QUESTION #5

[10 marks]

a) Draw a flow chart OR write a program that takes 10 numbers from user and display their sum.

First Semester Examination: B.S. 4 Years Programme Roll No. .....

PAPER: Introduction to Computing Course Code: IT-101 /11394

TIME ALLOWED: 2 hrs. & 30 mins. MAX. MARKS: 50

Attempt this Paper on Separate Answer Sheet provided.

#### PART - II (Short Questions)

#### **QUESTION #2**

[20 marks]

#### Write short answers to all of the following questions:

- 1. Explain how a cache memory helps in improving the overall processing speed of computer system.
- 2. Why ROM is needed in the computer system? What kind of programs/instructions are stored in the ROM?
- 3. Differentiate between high level and low level languages also give examples of each
- 4. What is a system bus? Name three types of computer buses.
- 5. What is a computer software? Differentiate between a system software and an application
- 6. What is a computer virus? How it effects a computer system?
- 7. List the major benefits of e-commerce.
- 8. What are the various areas where AI (Artificial Intelligence) can be used?
- 9. Describe the concept of data integrity in DBMS.
- 10. How simplex and duplex transmission modes work?

#### PART - III (Subjective)

#### **QUESTION #3**

[10 marks]

- a) Describe how the program instructions are executed by a computer. Briefly explain all the steps [5] involved in instruction life cycle.
- b) Explain the following CPU sharing techniques:

[5]

- i. Multiprocessing
- ii. Multiprogramming
- iii. Time-shared multiprogramming

#### **QUESTION#4**

[10 marks]

- a) Explain various kinds of communication media with the significance of each type. [5]
- b) Explain the concept of track, sector and cylinder by using a labeled diagram, while discussing magnetic disk storage.

#### **QUESTION #5**

[10 marks]

[5]

Draw a flow chart OR write a program that keeps taking input numbers from user (both even and odd) until user enters a sentinel value -1 and display the sum of all even numbers entered by the user.



First Semester 2017

Examination: B.S. 4 Years Programme

PAPER: Introduction to Computing Course Code: IT-101/11394 TIME ALLOWED: 30 mins. MAX. MARKS: 10

Roll No. ....

Attempt this Paper on this Question Sheet only.

		P	ART -I (Objectiv	c)	
QĘ	ESTIC	ON # 1	***************************************		[10 marks]
		hest option for each of the	following MCQs.	Overwriting will res	ult ZERO in
cre	dit.				
١.	Examp	les of volatile storage media	include all of the fo	ollowing except	
		Floppy disks	-550	Registers	
	c)	Main Memory	<b>d</b> )	Cache Memory	
2.		followed by	is the seque:	nce of keys to cut and	paste selected
		Microsoft Office.			
		Ctrl+C, Ctrl+V	25.00	Ctrl+X, Ctrl+V	
	c)	Ctrl+C, Ctrl+P	a)	Ctrl+X, Ctrl+P	
3.		is a device	that converts sound	waves into audio sig	nals.
	a)	Keyboard	7.05%	Keyboard	
	c)	Scanner	d)	Microphone	
4.	Which	of the following is not true	about personal com	puters?	
		The PC was introduced by			
		Uses the DOS or windows		veloped by Microsoft	Corporation.
		They are analogue machine			
	d)	They are general purpose of	omputers.		
			· ····································	to unit another commit	tar
5.		Password		is not another compu Encryption	tet.
	15.00	Virus		Captcha	
	C)	• nus	-,	Cupu	
6.	In HTM	AL the entire document is en			tags.
	0.00	,		<head> </head>	
	c)	<html>, </html>	d)	<uol>, </uol>	
7.	Consid	er the following HTML and	d CSS code snippet	- <del></del>	
		ead>	.05		
	<	Style type = "text/css">			
			er">introduction to Con	nputingI	
		/style> nead>			
	1	1690>			
		cording to the above code:			Accident
		The text "Introduction to The text "Introduction to			ned.
		The text "Introduction to			
		Nothing will appear at all.			
		5-100-100-100-100-100-100-100-100-100-10	vii in service	. UVC 1000 - AAA 1000	Incompanyasis II
8.			mputer systems that	attempt to model and	l apply the
		gence of human mind:	ts	E	\$ ·
	C 12	Artificial Intelligence		E-commerce Cyber ethics	
		Computer Security			
9.	In DB	MS,is a c	collection of related	fields that makeup a s	single database
	entry.			- 55 - 10 <b>- 1</b> 0 - 10 - 10 - 10 - 10 - 10 - 10 - 10	
		Table		Record	
	c)	Field	d)	none of these	
10	. A	is an electrical cha	innel along which th	e bits transfer within	the circuitry of
1.595	compi				remental Total Maria Constanti
		Chip	b)	System BUS	
	c)	PC Card	_ d)	RAM	



First Semester 2015
Examination: B.S. 4 Years Programme

Roll No.

PAPER: Introduction to Computing Course Code: IT-101

TIME ALLOWED: 2 hrs. & 30 mins. MAX. MARKS: 50

Attempt this Paper on Separate Answer Sheet provided.

PART - II (Short Questions)

#### **QUESTION #2**

[20 marks]

# Write short answers to all of the following questions:

- 1. List the functions of control unit in CPU.
- 2. Consider three processes P1, P2 and P3 in memory. P1 takes 5 ns; P2 takes 3 ns and P3 takes 12ns to complete its execution. What is the total turnaround time if they are executed in Time Shared OS environment having 4 ns for each clock cycle?
- 3. What is OSI model?
- 4. What is the difference between database and data base management system?
- 5. What are cyber ethics? Explain with examples?
- Write any two applications of Microsoft excel that how it provides ease in business record management.
- 7. What is Hyperlink in Power Point?
- 8. Difference between RAM and ROM?
- 9. List any two methods/algorithms used for information security.
- 10. What are registers? Name any 4 registers and their purpose.

## PART - III (Subjective)

# a) What is CPU? Explain its role and its different parts? [5] b) What is the difference between File processing system (FPS) and Database management system (DBMS) discuss in detail. [5] QUESTION #4 [10 marks] a) What are the functions of operating system? Discuss in detail. [5] b) Consider the following table: [5]

P.T.O.

First Semester 2018 Examination: B.S. 4 Years Programme : Roll No. ....

PAPER: Introduction to Computing

TIME ALLOWED: 2 hrs. & 30 mins.

Course Code: IT-101

MAX. MARKS: 50

#### Attempt this Paper on Separate Answer Sheet provided.

PART - II (Short Questions)

#### **QUESTION #2**

[20 marks]

## Write short answers to all of the following questions:

- 1. A computer has 5 MB of memory. How many words can be stored in it at a time? Where each word consists of 16-bits.
- 2. How a worm and a virus are different from each other?
- 3. What is data compression? Why and where it is used?
- 4. What is a firewall?
- 5. What is a computer terminal? Explain.
- 6. List various branches of AI (Artificial Intelligence).
- 7. What is software reliability in e-commerce?
- 8. Describe some of the advantages of DBMS over file system.
- 9. What is a computer topology? Discuss some commonly used LAN topologies.
- 10. What is kernel? Why it is important?

#### PART - III (Subjective)

#### QUESTION#3

[10 marks]

[5]

- a) How an optical disk is different from magnetic disk? Briefly discuss the physical organization of both the storage devices.
- b) Discuss the concept of parallel processing and pipelining? How it helps improving the overall performance of a computer? [5]

#### **QUESTION #4**

[10 marks]

- a) Describe the following methods that computer criminals use to gain illegal access to computer systems: [5]
  - Denial of service attacks

(P.T.O.)

- ii. Trojan Horse
- iii. Zapping
- iv. Piggybacking
- v. Data diddling
- b) What is a modem? Discuss different types of modems.

[5]

#### QUESTION #5

[10 marks]

- a) Write code to print the count of digits in an array named A of type char of size 20. You may test weather a char c is digit or not by using conditional expression c >= '1' && c <= '0'.
- b) Write HTML code to produce the following form: [5] Here, the text "Sign Up Page" should be a first level heading and "Go Back" should be a hyperlink to home page named home.html

## Sign Up Page

First Name

Last Name:

Email:

Password:

Gender Male Female

Country : Pakistan •

Sign UP

Go Back



2018 First Semester Examination: B.S. 4 Years Programme

PAPER: Introduction to Computing Course Code: IT-101

TIME ALLOWED: 30 mins.

Roll No. ....

MAX. MARKS: 10

# Attempt this Paper on this Question Sheet only.

PART - I (Objective)

QU	ESTIC	<u>)N#1</u>		[10 marks]					
	cct the dit.	best option for each of	the following MCQs.	Overwriting will result ZERO in					
1.		consis	sts of a series of instruc	tions that tells the computer what					
	actions to perform and how to perform them.								
	a)	Output device	b)	Input device					
	c)	Software	d)	Monitor					
2.	A device driver is								
		The person who delivers							
		The connector that allow							
				stem to communicate with the device					
	d)	The power supply for th	e device						
3.	All of	the following are exampl	es of application softwa	are except					
		Adobe Photoshop	b)	VLC media player					
	c)	Linux	d)	Microsoft office					
4.	Which one the following can be used as an input device as well as an output device?								
		Keyboard		Printer					
	c)	Scanner	d)	Touch screen					
5.									
		ncy is measured in FLOP	's.						
	100	Super computers		Mainframe computers					
	c)	Personal computers	d)	Workstations					
6.		of the following is not a	basic function of comp	outer?					
		Input		Processing					
		Learning		Controlling					
7.				lowing will result 3 in Excel?					
	a)	=Min(A1:C1)		=Max(A1:C1)					
	c)	=Average(A1:C1)	d)	=C1+(A1-A1/A1)					
8.		is used to copy	y the formatting of the s	selected text.					
	4)	Format Painter		Quick Access Toolbar					
	c)	Mini toolbar	d)	None of these					
9.	Which	of the following variabl	e name is valid:						
	a)	#OfStudents	a)	num 1					
	<b>b</b> )	1122Rescue	e)	All of the above					
10	. Which	of the following is a cor	rect way to insert an in	nage in a webpage.					
		a) <img source="image"/>							
		b) <img style="text-align:center"/> "image.jpg"							
		c) <img alt="image.jpg:&lt;/td"/> <td></td> <td>"</td>		"					
		d) zima src="image in	o alt="This is an image	2 >					



First Semester 2015
Examination: B.S. 4 Years Programme

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PAPER: Introduction to Computing Course Code: IT-101 TIME ALLOWED: 30 mins. MAX. MARKS: 10

Attempt this Paper on this Question Sheet only.

PART - I (Objective)

QUESTION # 1								
	ect the	best option for each of the following	MCQs.	Overwriting will result ZERO in				
1.	A dom	nain name is a text version of						
		A webpage	b)	An IP address				
	c)	A proxy server	d)	Memory address				
2		memory has the least access time						
		Magnetic Tape		Main Memory				
		Register		Cache				
	interprets and carries out the basic instructions that operate a computer.							
	a)	Cache	b)	Motherboard				
	c)	Memory	d)	CPU				
6	The disk's storage locations are divided into pie-shaped sections called							
		Platters	and the second second	Tracks				
	c)	Cylinders	d)	Sectors				
	The pr	ocess of transferring data electronically	from on	e place to another is called				
		Data Processing		Data Communication				
		Data sequencing	- 22	Data Transferring				
,	Linux is software,							
).		Application Software,	b)	System				
	-0.53	Section 1		E-commerce software				
	C)	Packaged	u)	E-commerce software				
7.	A CO THE STREET OF THE STREET							
	a)	<ul> </ul>	-	<uol> </uol>				
	c)	<ol> </ol>	d)	<dl></dl>				
	The more widely used are Internet Explorer, Firefox, Opera,							
	Safari,	and Google Chrome, etc.						
	a)	Search engines	b)	Operating systems				
	c)	Device drivers	d)	Browsers				
) .	deceleration case of doctype is acceptable in html document.							
	a)	html		html				
		HTML		Html				
0	RAM	is defined as						
		Memory that follows instructions	b)	Memory that holds data permanently				
	/	from control Unit		into it for usage				
	c)	Memory that holds data temporarily	d)	All of above				
	-)	1-1-1-6		A CONTRACTOR OF THE CONTRACTOR				