

## INDEX

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<b>1. HISTORY</b>	<b>OF COMPUTERS</b>
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## Keywords

- 1. <u>Mechanical Device</u> A device that is operated by hand or uses power from an engine.
- 2. <u>Electronic Device</u> A device that runs on electricity and has many small parts.
- 3. **ENIAC** Electronic Numerical Integrator and Computer
- 4. Vacuum tubes An electronic component

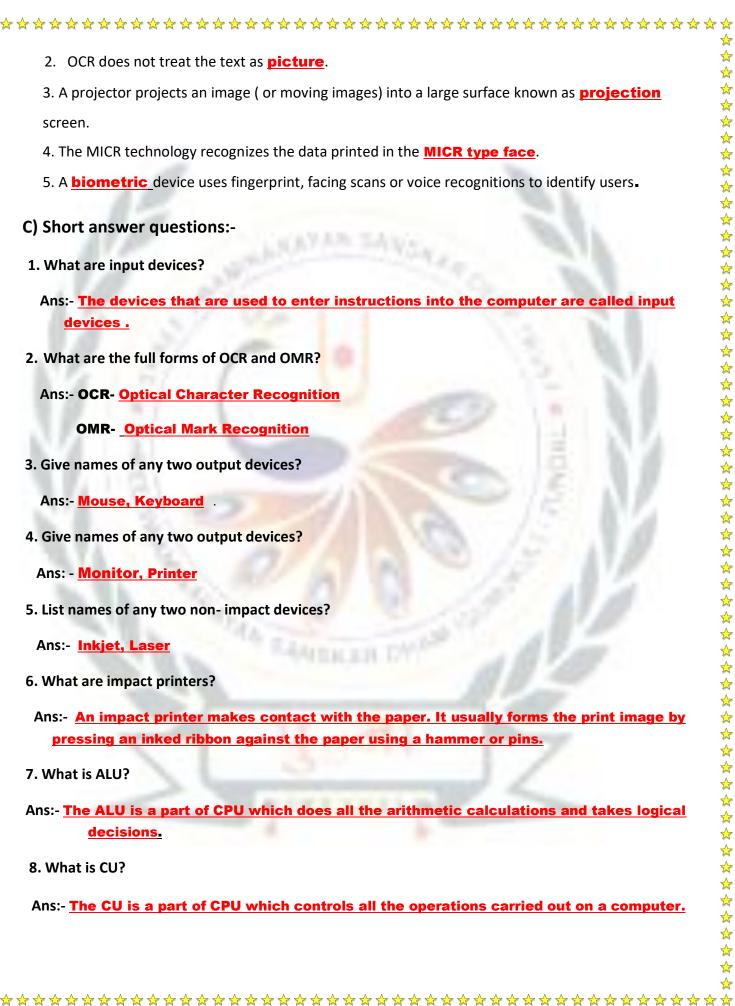
## EXERCISE CORNER

nformation	dials	large	arithmetic	IPO	small
) Fill in the blank	s. Compare yo	our answers	with yo <mark>ur</mark> classma	ates' answe	rs:-
a. 1944	b. 1946		c. <u>1951</u>		
5. In which year wa	s the first UNIVA	C computer d	elivered to US Census	Bureau?	
a. Mark I	b. UNIVA	AC	C. ENIAC		
4. Which of the follo	owing was the fir	st electronic o	computer?		
a. Loom	b. <u>Analy</u>	tical Engin	e c. Mark 1		
3. Which of the follo	owing was invent	ed by <mark>Bab</mark> bag	e?		
a. Pascaline	b. Napie	r's bones	c. <mark>Jacqua</mark>	rd Loom	
2. In which of <mark>the</mark> fo	llowing was the	concept of pu	nched cards used?		
a. Napier Bones	b. Pascal A	Adding Machi	ne c. <mark>Abacus</mark>		
1. Which was the fi	rst mechanical ca	alculating dev	ice?	12	

2	. An abacus could count large numbers and perform arithmetic calculations.
3.	In Pascaline, <b>dials_</b> were moved clockwise to enter numbers for calculations.
1.	A punched card was a piece of paper that could store <b>information</b> for doing calculations.
5.	The Analytical Engine was based upon the concept of IPO (Input-Process- output).
C)	State 'True' or 'False':-
	1. Calculations are done on an abacus by sliding breads across the rods.
	2. Pascaline is known as the first gear - driven calculator.
	3. Mark 1 was developed for Army Ordnance to computer World War II ballistic
	firing tables.
	4. Apple II was the first personal computer with colour monitor.
	5. Mark 1 was the first electromechanical computer.
Q	Answer the following questions: - 1) What is abacus?
1	Ans: - <u>Abacus is the first mechanical device, developed by the Chinese around 5000 years</u> ago .
22	) Describe punched card?
	Ans:- <mark>A punched card was a piece of paper that could</mark> store information for during calculations.
Q	3) What does IPO stand for?
1	Ans:- <mark>IPO stands for Input – Process – Output cycle .</mark>
Q	4) In which year was Pascaline develop <mark>ed?</mark>
A	Ins:- <mark>Pascaline was developed in 1642.</mark>
Q	5) Mark 1 was the first electromechanical computer?
	Ans:- <u>Charles Babbage is known as the 'Father of Computer' .</u>
)	Long answer questions: -
C	(1) Describe any two early developments?

Ans:- i. Ab	acus: <u>It was the first mechanical calculating device used for counting large numbers and doing</u>
<u>arithr</u>	netic calculations.
ii. <b>Napie</b>	r's Bones : It was a manually operated calculating device used to perform multiplications.
2 2) Why i	s Charles Babbage known as the ' Father of Computer'?
ns: - <mark>The</mark>	present-day computer took shape from the designs of Charles Babbage, so
Ba	abbage is known as the 'Father of Computer'.
2 3) Write	notes on the following: -
Ans: - a. <b>M</b>	ark 1 - It was the first electromechanical computer. It was huge and heavy. It
	consisted of about 750,000 different part .
b. <b>E</b> N	NIAC - It stands for Electronic Numerical Integrator and Computer. It was the first
	electronic general-purpose computer. It was faster than the Mark-I .
c. <b>UN</b>	NVAC - <u>It stands for Universal Automatic Computer. It was the world's first</u>
	commercially available computer.
> Expar	Brain teaser
	- Electronic Numerical Integrator and Computer
	Lieutome Numericar integrator and computer
2. UNIVA	AC - <u>Universal Automatic Computer</u>
<b>3.</b> IPO -	Input-Process-Output

1. Which of the following is NOT an input device?   a. touchpad b. projector   c. MICR   2. What does OCR stand for ?   a. Optical Character Recognition   b. Oriented Character Recognition   c. Jacquard Loom   3. A plotter prints on paper by using?   a. a stylus   b. pencils   c. pens   4. Which of the following is an output device?   a. projector   b. laser printer   c. both a and b	<ul> <li>2. OCR - The technology that converts scanned documents into editable files.</li> <li>3. OMR - The technology that recognizes pre-specified type of marks made by a person on the OMR sheets.</li> <li>4. MICR - A device that recognizes data printed with magnetically – charged ink.</li> <li>EXERCISE CORNER</li> <li>A. Tick ( ✓ ) the correct answer:- <ol> <li>Which of the following is NOT an input device?</li> <li>touchpad</li> <li>projector</li> <li>MICR</li> <li>Optical Character Recognition</li> <li>Jacquard Loom</li> </ol> </li> <li>A plotter prints on paper by using? <ol> <li>a stylus</li> <li>pencils</li> <li>c. pens</li> </ol> </li> <li>4. Which of the following is an output device?</li> </ul>	Picture	barcode	biometric	projection	MICR	typeface
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3. A projector projects an image (or moving images) into a large surface known as **projection** screen.

- 4. The MICR technology recognizes the data printed in the **MICR type face**.
- 5. A biometric device uses fingerprint, facing scans or voice recognitions to identify users.

C) Short answer questions:-

1. What are input devices?

- Ans:- The devices that are used to enter instructions into the computer are called input devices.
- 2. What are the full forms of OCR and OMR?

Ans:- OCR- Optical Character Recognition

**OMR-** Optical Mark Recognition

3. Give names of any two output devices?

Ans:- Mouse, Keyboard

4. Give names of any two output devices?

Ans: - Monitor, Printer

5. List names of any two non-impact devices?

Ans:- Inkjet, Laser

6. What are impact printers?

Ans:- An impact printer makes contact with the paper. It usually forms the print image by pressing an inked ribbon against the paper using a hammer or pins.

7. What is ALU?

Ans:- The ALU is a part of CPU which does all the arithmetic calculations and takes logical decisions.

8. What is CU?

Ans:- The CU is a part of CPU which controls all the operations carried out on a computer.

INPUT DEVICE Keyboard Scanner OCR	GPS	Touchpad Touch screen webcam	plotter projecto printer			
Keyboard	monitor		plotter			
		Touchpad				
INPUT DEVICE	OUTPUT DEVICE		OUTPUT DE			
	OUTPUT DEVICE	INPUT DEVICE				
11	<u>I. laser printer, inkjet pr</u> Brai wing devices under co	in teaser				
<u>of</u>	a striking device to han	e contact with the paper. Inmer against the paper to				
	-Matrix Printer, Daisy W		10			
		rith the paper and forms f gainst the paper using a				
12 16	7					
10	SV in	ect printers. Give examples o	of each?			
	d scanner- <u>It is moved I</u> 1ned.	by hand over the informat	ion which is to l			
chapter o	<mark>er photographs</mark> .					
a. Flatbed s	scanner- <u>It is great for s</u>	canning the occasional n	ewspaper articl			
	allows you to scan infor scanner are:	mation printed on paper o	<u>or some other m</u>			
Q1) What is a scanner? Describe its types.						
Q1) What is a scan						

☆ ☆ ☆ lows you to scan information printed on paper or some other media. The  $\mathbf{x}$ ☆ ☆  $\mathbf{k}$ ☆ inter - It does not make contact with the paper. It prints without the use striking device to hammer against the paper to produce characters. For ☆ ☆ ☆ ☆ ☆ ☆ ☆ ☆ \*\*\*\*\*\*\*\*\* 

Keywords					
1. <u>Bit</u> - The small	est amount of data.				
2. Volatile memory	- It requires power	r to maintain the	stored informa	ation.	
3. <mark>Non- Volatile men</mark>	nory - It does not red	quire power to m	aintain the sto	ored information	on.
4. <u>Magnetic storage</u>	media - It uses ma	agnetic material t	o store data.		
	EXERCIS	E CORNER			
A. Tick (√) the co	errect answer: -				
1. 1024 bytes =					
a. 1 MB	b. 1 GB	- 12	c. <u>1 KB</u>	14	
. Which of the follov	ving is an optical stora	ge media?		2	
a. hard disk	b. <u>CD</u>		c. RAM		
. Which of the follow	ving stores high definit	tion videos?			
a. CD	b. DVD	NO	c. <u>Mark 1</u>		
4. The CPU directly re	etrieves information o	<mark>r data from the _</mark>	14	?	
a. hard disk	b. CD		c. <u>RAM</u>		
5. Which of the follo	wing is a secondary sto	orage device?			
a. ROM	b. cache		c. <u>hard disk</u>		
) Fill in the blanks	. Compare your an	swers with yo	ur classmate	es' answers:	-
1024 sec	ondary memory	primary m	emory	hard disk	bit
			-		
1. A <mark>hard disk</mark> c	an store 2 TB to 5 TB c	data.			

3. The <b>secondary</b> memory is a	lso known as auxiliary storage.			
4. One GB is equal to 1024 MB.				
5. Individually, a binary number				
C) State 'True' or 'False':-				
1. RAM is faster than secondary storage devices.				
2. Bits and bytes are units of computer memory.				
	and the second s			
3. A portable hard disk is generally	/ used for taking back-up	F		
4. The instructions that are written	n into ROM cannot be altered.			
D) Match th <mark>e co</mark> lumns:-				
Column A	Column B			
1. 1 MB	a. Magnetic secondary storage	5		
2. Pen drive	b. 10 <mark>24 KB</mark>	1.1		
3. ROM	c. Secondary memory	2		
4. Operating system	d. Primary memory	3		
5. Hard disk	e. Loaded into the main memory	4		
E) Short Answer questions: -				
Q1) What is a bit?				
Ans: - <u>Bit is the smallest amoun</u> either 0 or 1.	nt of data in a computer. It has a single binary	<u>/ value,</u>		
Q2) What is machine language?				
Ans: - <u>A machine language con</u> s	sists of binary digits, i.e. 0 and 1. A computer	understands ar		
stores, data and information	in the form of machine language (i.e. 0 and 1	).		
Q3) Write types of RAM?				
Ans: - <u>Static RAM (SRAM), Dyna</u>	mic RAM (DRAM) .			
Q4) What is computer memory?				
Ans:- <u>A storage space where da</u>	ta and instructions are stored either for proce	essing or the		
further use is called comp	outer memory .			

	Q5) What is storage devices?
	Ans: - <u>The maximum amount of data that can be stored in a computer is called its storage</u> <u>capacity.</u>
	Q 6) Describe cache memory.
	Ans: - <u>Cache memory is an extremely fast memory type that acts as a buffer between RAM</u> and the CPU. It is used to reduce the average time to access data from the Main memory
E	:) Long answer questions: -
	Q 1) What is primary memory? Describe RAM and ROM?
	Ans:- <u>A primary memory is also known as the main memory or internal memory of a compute</u>
	which is in built memory of a computer in which data and instructions are stored fo
	processing.
	RAM - <u>Random Access Memory holds the data and instructions on which computer is</u>
	currently working.
	ROM - <u>Read Only Memory, information can only be read from this type of memory. One</u>
	data is written on ROM, it cannot be changed or altered.
	Q 2) Describe secondary memory?
	Ans:- <u>A secondary memory is also called auxiliary memory or external memory. It stores the</u> <u>large amount of data permanently until someone deletes it purposely. A secondary</u> <u>memory is important for a computer because the internal memory has less capacity to</u> <u>store data</u> .
	Q 3) Define the following:-
	Ans:- a. Hard Disk- <u>A hard disk is a type of magnetic secondary storage media. It is the main</u> secondary storage for the computers. It can store upto 2 TB to 5 TB data
	b. <b>Pen drive- <mark>It is also known as flash drive. It is portable and used to store large</mark></b>
	amount of information. Its storage capacity varies from 1 GB to 256 GB.
	c. CD- <u>It is a type of secondary storage media. It is circular in shape and small in size. I</u>
	is portable. It can store around 700 MB data.