

**END SEMESTER /RETEST EXAMINATION, 2020****Semester: 5<sup>th</sup> Sem(NEW)****Subject code: Et-504****Subject: PC System Technology****Full Marks: 70(Part A-25 + Part B-45)****Duration: Three hours***Questions on Part A are compulsory**Answer any five questions from Part B*

<b>PART-A</b>		
<b>MARK-25</b>		
<b>Question no.</b>	<b>Questions</b>	<b>Marks</b>
Question 1	<b>Fill in the blanks:</b>	1x10=10
1a	One nibble is equal to _____ bit.	
1b	A computer cannot be BOOT if it does not have the _____.	
1c	In computer, _____ converts AC to DC.	
1d	A maximum of _____ peripherals can be connected to a single USB host controller.	
1e	Overall efficiency of online UPS is reduced since inverter is always _____.	
1f	Dot matrix is a type of _____ printer.	
1g	ALU and Control unit jointly known as _____.	
1h	The primary function of the _____ is to set up the hardware and load and start an operating system.	
1i	The _____ unit is capable of mimicking the processor and indeed of taking over control of the system from the processor.	
1j	Bus used to connect the monitor to the CPU is _____.	
Question no.2	<b>Write true or false:</b>	1x10=10
2a	The north bridge chipset links the CPU to lower speed peripheral device.	



2b	USB is a serial mode of transmission of data and this enables for the fast speeds of data transfers.	
2c	Data stored in ROM is not permanent.	
2d	BIOS is used for loading operating system.	
2e	DRAM composed of one transistor and one capacitor.	
2f	Keyboard is a pointing device.	
2g	DRAM is used as cache memory.	
2h	Personal computer were appeared in 4 <sup>th</sup> generation.	
2i	DOS is a single tasking operating system.	
2j	A 25 pin female connector on the back of our computer will typically be a serial port.	
Question no. 3	<b>Choose the correct answer</b>	1x5=5
Q 3a	Which memory device is generally made of semi conductor?	
i) iii)	RAM Floppy Disk	ii) Hard disk iv) CD-ROM
3b	Window's settings are recorded in	
i) iii)	WINDOS.INI SYSTEM.INI	ii) WIN.INI iv) GROUP.INI
3c	The time disk controller takes for the beginning of the sector to reach the head is known as	
i) iii)	Rotational delay Access time	ii) seek time iv) transfer time
3d	A COM port is a	
	i) Serial port iii) Multi port	ii) Parallel port iv) SCSI
3e	The standard VGA display has _____ pixels in its native graphics mode.	
	i) $648 \times 320$ iii) $684 \times 480$	ii) $640 \times 480$ iv) $1024 \times 786$



PART-B MARK-45		
Questions no.	Questions	Marks
Question no. 4		
Q4a	a) Differentiate between IBM PC, PC-XT and PC-ATs?	6
Q4b	What is North bridge and south bridge	3
Question no. 5		
Q5a	What do you understand by BUS in a computer?	3
Q5b	Write the characteristics of a Cache Memory?	3
Q5c	Write what you know about the SIMM and DIMM.	3
Question no. 6		
Q6a	What are the functions of a operating system?	3
Q6b	Discuss about the BIOS, POST and CMOS?	6
Question no. 7		
Q7a	What do you understand by partitioning of a Hard disk?	3
Q7b	What are the interfacing standard of an HDD?	3
Q7c	How can be data recorded in a floppy disk?	3
Question no. 8		
Q8a	Describe about the various serial port standard.	6
Q8b	Differentiate between the USB and Fire-wire.	3
Question no. 9		
Q9a	Explain the concept of pointing device with example.	3
Q9b	What are the different types of mouse. Discuss.	6
Question no. 10	Define pixel, resolution, refresh rate of a display monitor.	9
Question no. 11	Write about the different types of commercially available UPS used in PC.	9
Q12 a	Differentiate between laptop and desktop.	4
Q12b	Explain about the booting procedure of a computer.	5

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