



BRAINWARE UNIVERSITY

Term End Examination 2022
Programme – M.Sc.(ANCS)-2022
Course Name – Core Hardware
Course Code - MNCS101
(Semester I)

Full Marks: 60
Time: 2:30 Hours
[The figure in the margin indicates full marks. Candidates are required to give their answers in their own

words as far as practicable.] **Group-A** (Multiple Choice Type Question) 1 x 15=15 Choose the correct alternative from the following: (i) Choose total PATA hard drives can you have on a system with two PATA hard drive controllers a) 1 b) 2 c) 3 d) 4 (ii) Select the best way to determine the total capacity and specific type of RAM your system can handle a) Check the motherboard book. b) Open the case and inspect the RAM. c) Check the Device Manager. d) Check the System utility in the Control Panel. (iii) Recall the type of security features can be set in BIOS a) Restrict to access Boot sequence b) Group Policy settings c) Password-restricted access to the BIOS setup d) User password required to proceed when the computer is powered on (iv) Which utility is helpful in troubleshooting hardware? a) System Properties b) Device Manager c) Disk Management d) Security Center (v) Identify the following storage technology is used by traditional hard disk drives a) Optical b) Impact c) Magnetic d) Solid-state (vi) Select the memory form factors used in laptops a) ECC b) SO-DIMM c) AGP d) CRIMM (vii) Select if a disk is being formatted, what will happen a) Data Copied from the disk b) Data Saved to the disk c) Data Cut from the Disk d) Data Deleted from the disk.

(viii) Identify the data stored in RAM

(ix)	a) The BIOSc) The operating systemSelect the function registers provide for the CPU	b) Data and instructions for use by the Od) Save files for your games	CPU
	a) Registers determine the clock speed.	b) The CPU uses registers for temporary of internal commands and data.	storage
	c) Registers enable the CPU to address RAM.	d) Registers enable the CPU to control to address bus.	he
(x)	Choose the voltage od DDR-3 RAM	addiess bas.	
	a) 1.8 V	b) 1.5 V	
,	c) 2.5 V	d) 1.2 V	
(xi)	Choose the feature feature enables a single-core		
	a) Hyper-Threading	b) SpeedStep	
(xii)	c) Virtualization With a laser printer, Choose what creates the image	d) x64	
(711)	a) Primary corona	b) Laser imaging Module	
	c) Transfer corona	d) Toner	
(xiii)	Which CPU feature enables the microprocessor to	•	
	systems at the same time?		
	a) Clock multiplying	b) Caching	
,	c) Pipelining	d) Virtualization support	
(xiv)	Select the following port used by Modern keyboa		
	a) DIN c) COM Port	b) FireWire d) USB	
(xv)	After completing the initial diagnostics and assign program checks for information about secondary OS. The list of devices and the order in which the arranged in the CMOS setup utility. Select the op-	storage devices that might contain the y should be checked can be found and	
	a) Power-on self-test (POST)c) Partition table	b) Boot recordd) Boot sequence	
	Grou	•	
	(Short Answer Ty	pe Questions)	3 x 5=15
2. Ex	xplain the working principle of Dot Matrix Printer.		(3)
	3. Explain Basic Logical Structure Of A Computer.		
	eplain the feature of mechanical Keyboard.		(3)
	rite the advantage of a multiprocessor system		(3) (3)
O. VV	OF		(3)
W	rite the different types of Power Supply mode	•	(3)
	Grou	n-C	
	(Long Answer Ty	=	5 x 6=30
7. F	Explain Virtual Memory		(5)
	Explain the different parts & their function of HDD		(5)
	9. Explain how many types of volumes are available in case of Dynamic Disk		
	Explain the working principle of Laser Printer		(5) (5)
	11. State the functions of the CU and ALU in the CPU in computer		
12. (12. Conclude the function of North Bridge chip in motherboard		

Summarize supervisor password setting in BIOS & how can you set it	(5)