

BRAINWARE UNIVERSITY

Term End Examination 2020 - 21

Programme - Bachelor of Science (Honours) in Advanced Networking & Cyber Security Course Name - Hardware and Operating Systems I

> **Course Code - BNCSC102** Semester / Year - Semester I

Time allotted: 75 Minutes

Full Marks: 60

[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 60=60
1. (Answer any Sixty)	
(i) Electronic circuits that op	perate on one or more input signals to produce	
standard output		
a) Series circuits	b) Parallel Circuits	
c) Logic Signals	d) Logic Gates	
(ii) The gate which is used to	o reverse the output obtained is	
a) NOR	b) NAND	
c) XOR	d) NOT	
(iii) The binary equivalent of	f the decimal number 10 is	
a) 0101	b) 1011	
c) 1010	d) 1001	
(iv) Convert the binary equiv	valent 10101 to its decimal equivalent.	
a) 21	b) 12	
c) 22	d) 31	
(v) Where would you find th	e letters QWERTY?	
a) Numeric Keyboard	b) Hard disk	
c) Keyboard	d) Mouse	

(vi) What are the individual dots w screen called?	which make up a picture on the monitor
a) Pixels	b) Pixies
c) Rainbow	d) Colored spot
(vii) Which of the following storag	ge technologies is used by traditional hard
a) Optical	b) Impact
c) Magnetic	d) Solid-state
	front panel of a computer case has a be attached to the appropriate pins on the:
a) Riser card	b) Expansion slot
c) Motherboard	d) Power supply
(ix) The ability to replace compute interruption to the system is referred	er system components without causing ed to as:
a) Hardware acceleration	b) Multitasking
c) Hot swapping	d) Cold plugging
(x) Which of the following auxilian power for a high-end CPU?	ry connectors is used to supply dedicated
a) T568A	b) PCIe 6/8-pin
c) 4/8-pin 12v	d) P1
(xi) Which of the following connec	ctors is used for musical equipment?
a) PS/2	b) MIDI
c) DVI	d) HDMI
(xii) Laser printer is?	
a) Character Printer	b) Line Printer

c) Page Printer	d) None of these
(xiii) Which of the following should you use that are not sure how to do so?	to clean a monitor screen if you
a) Water	b) Mild detergent
c) Isopropyl alcohol	d) Boric acid
(xiv) A user calls you to complain that her system working fine when she left the last evening. Vecheck first?	·
a) Reseat the hard drive controller cable	b) Test the power supply
c) Replace the CMOS battery	d) Check the AC outlet
(xv) Which function is performed by the exten	rnal power supply of a laptop?
a) Stores power	b) Increases voltage
c) Converts AC power to DC power	d) Converts DC power to AC power
(xvi) What is the full form of SMPS?	
a) Switch Mode Power Supply	b) Switch Multiple Power Supply
c) Switch Mode Power Systems	d) Switch Modulation Power Supply
(xvii) What is full form of MCH?	
a) Memory Central Hub	b) Memory Controller Hotspot
c) Memory Controller Hub	d) Mother controller Hub
(xviii) What connector was designed to connectelevision set?	ect your PC to a high-end
a) DB-HD	b) HDMI
c) USB	d) VGA
(xix) How many types of Keyboards are avail	able mechanism wise?

a) 1	b) 3
c) 5	d) 7
(xx) What is the color of the PS/2 port of Keybo	oard?
a) Purple	b) Green
c) Magenta	d) Grey
(xxi) How many types of mouse are available n	nechanism wise
a) 1	b) 3
c) 5	d) 7
(xxii) Which end of the USB cable plugs into the	ne PC?
a) A	b) B
c) Mini-A	d) Mini-B
(xxiii) What do you plug into a three-row, 15-pa	in port?
a) Joystick	b) Keyboard
c) Monitor	d) Mouse
(xxiv) Which of the following statements apply	to the USB 3.0 standard?
a) Speed upto 480 Mbps	b) USB 3.0 is also commonly referred to Super Speed USB
c) USB 3.0 is also commonly referred to as Full-Speed USB Speed of up to 5 Gbps	d) Speed of up to 800 Mbps
(xxv) Which of the following interfaces support	t hot plugging?
a) EIDE	b) USB
c) GUI	d) PCI
(xxvi) Which is the most complete list of file sy	stems Windows can use?
a) FAT16, FAT32, NTFS	b) FAT16, FAT32

as

c) FAT16, NTFS	d) FAT16, FAT32, FAT64, NTFS.
(xxvii) What is the full form of UDMA	
a) Ultra Direct Memory Acknowledge	b) Ultra Directional Memory Access
c) Ultra Direct Memory Access	d) Ultra Direct Management Access
(xxviii) What program does Microsoft include v format a drive?	with Windows to partition and
a) Format	b) Disk Management console
c) Disk Administrator console	d) System Commander
(xxix) Which of the following file format support	orts in Windows 7?
a) BSD	b) NTFS
c) EXT 4	d) EXT
(xxx) Identify false statement	
a) You can find deleted files in recycle bin	b) You can increase free space of disk by sending files in recycle bin
c) You can restore any files in recycle bin if you ever need	d) You can right click and choose Empty Recycle Bin to clean it at once
(xxxi) Which of the following is an advantage of opposed to FAT?	of running Windows on NTFS as
a) Security	b) Multiple folders
c) Long filenames	d) Speed
(xxxii) Which utility is helpful in troubleshooting	ng hardware?
a) System Properties	b) Device Manager

(xxxiii) What is the maximum cable length of an internal SATA device?

d) Security Center

c) Disk Management

a) 2 meters	b) 12 inches
c) 18 inches	d) 1 meter
(xxxiv) What is the maximum number of SATA system?	A drives you can have on a
a) One master, one slave	b) Two, with no master/slave distinction
c) Eight	d) There is no maximum other than the limitations of your motherboard
(xxxv) How can you effectively expand the cap	pacity of an NTFS drive?
a) Install a second drive and mount it to a folder on the original smaller NTFS drive	b) Create an extended partition to extend the capacity.
c) Convert the drive to a dynamic disk and create a mirrored set.	d) Format the drive with the Quick Format option
(xxxvi) A group of sectors is called	
a) Track	b) Cluster
c) Cylinder	d) Actuator
(xxxvii) In modern PCs, the procedure of repla upgrade to a newer version is sometimes referr	
a) Direct memory access (DMA)	b) Overclocking
c) Hard boot	d) Flashing the BIOS
(xxxviii) Which of the following is an example	e of firmware?
a) Basic Input / Output System (BIOS)	b) Universal Serial Bus (USB)
c) Dynamic Random-Access Memory (DRAM)	d) CMOS RAM
(xxxix) After replacing a modular hardware co the updated information about specific parameter	•

in:

a) CMOS RAM	b) System BIOS
c) Startup BIOS	d) Secondary storage
(xl) Which of the following acronyms refers to track of the current time in a PC?	o an integrated circuit that keeps
a) CRT	b) RTC
c) MBR	d) CMOS
(xli) Setting an administrator password in the following?	BIOS accomplishes which of the
a) Prevents an attacker from opening the case	b) Prevents a virus from infecting the MBR
c) Prevents a user from reading e-mail	d) Prevents a user from rearranging the boot order
(xlii) What operating CPU temperature is typi	cal?
a) 72 Degree Celsius	b) 72 Degree Fahrenheit
c) 60 Degree Celsius	d) 60 Degree Fahrenheit
(xliii) A customer complains he has corrected several occasions but the computer just can't k you will replace?	•
a) CPU	b) Motherboard
c) CMOS battery	d) Power Supply
(xliv) Which of the following component is no	ot tested by POST?
a) BIOS	b) Motherboard
c) System RAM	d) Power supply
(xlv) When a computer is first turned on or resolved loader is executed. What is its name?	started, a special type of absolute
a) Boot loader	b) Relating Loader

c) Compile & Go loader

d) Bootstrap Loader

(xlvi) What is the correct boot sequence for a PC?

- a) CPU, POST, power good, boot loader, operating system
- b) POST, power good, CPU, boot loader, operating system
- c) Power good, boot loader, CPU, POST, operating system
- d) Power good, CPU, POST, boot loader, operating system

(xlvii) Jill boots an older Pentium III system that has been the cause of several user complaints at the office. The system powers up and starts to run through POST, but then stops. The screen displays a "CMOS configuration mismatch" error. Of the following list, what is the most likely cause of this error?

a) Dying CMOS battery

b) Bad CPU

c) Bad RAM

d) Corrupt system BIOS

(xlviii) In optical media group which is the latest addition from the following?

a) CD-RW DVD-RW

b) Blu-Ray Disk

c) DVD-RAM

d) DVD-ROM

(xlix) What is the main advantage of selecting a 64-bit operating system over a 32-bit operating system?

- a) The ability to run multiple 16-bit programs in separate memory spaces
- b) The ability to use unsigned drivers
- c) The ability to access more than 4 GB of RAM
- d) The ability to use software-based data execution prevention (DEP)

- (1) What is the full form of IRQ
 - a) Interrupt Requisition

b) Interrupt Request

c) Internal Requisition

- d) Internal Request
- (li) What is the primary reason that DDR2 RAM is faster than DDR RAM?
 - a) The core speed of the DDR2 RAM chips b) The input/output speed of the DDR2

is faster.	RAM is faster
c) DDR RAM is single-channel and DDR2 RAM is dual-channel.	d) DDR RAM uses 184-pin DIMMs and DDR2 uses 240-pin DIMMs.
(lii) Which of the following Control Panel apple RAM in your PC?	ets will display the amount of
a) System	b) Devices and Printers
c) Device Manager	d) Action Center
(liii) After a sudden power outage, Samson's Poappeared on the screen. The PC just beeps at his What's most likely the problem?	
a) The power outage toasted his RAM.	b) The power outage toasted his video card.
c) The power outage toasted his hard drive	d) The power outage toasted his CPU
(liv) RAM stands for	
a) Random Access Memory	b) Random Access Memories
c) Robust Access Memory	d) Redundant Array Memory
(lv) How is the size of RAM normally measure	d nowadays?
a) In KB.	b) In MB
c) In GB.	d) With a tape measure
(lvi) ROM stores	
a) The operating system.	b) Programs currently in use.
c) The work that you save in My Documents.	d) The instructions needed to start up the computer including the BIOS.
(lvii) When the CPU is first powered on it looks anything else.	s in this place first before
a) RAM	b) ROM
c) Keyboard	d) Monitor

(lviii) Which of the following is a	not an operating system?	
a) DOS	b) Linux	
c) Windows	d) Oracle	
(lix) Linux is an(a) operating	system	
a) Open source	b) Microsoft	
c) Windows	d) Mac	
(lx) Which of the following is no	t a multitasking operating system?	
a) Windows	b) Linux	
c) Win NT	d) DOS	