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Brainware University
Persent, Kolkate -700125

BRAINWARE UNIVERSITY

Term End Examination 2021 - 22

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

Course Code - BNCSC202

Course Coue -	DITCOCEGE
(Semest	ter II)
Time allotted: 1 Hrs.15 Min.	Full Marks: 60
[The figure in the margin	n indicates full marks.]
Grou	n-A
. (Multiple Choice	
Choose the correct alternative from the following:	·
(1) What is full form of CPU?	
a) Central Priority Unit	b) Central Processing Unit
c) Central Process Unique	d) Central Purpose Unit
(2) What function does the external data bus have in	the PC?
a) The external data bus determines the clock spe ed for the CPU.	b) The CPU uses the external data bus to address RAM.
 c) The external data bus provides a channel for t he flow of data and commands between the C PU and RAM 	d) The CPU uses the external data bus to access registers.
(3) Into which socket could you place an Intel Core	i5?
a) Socket LGA 775	. b) Socket LGA 1155
c) Socket C	d) Socket AM2
(4) Which of the following form factors dominates the	he PC industry?
a) AT	b) ATX
c) ITX	d) CTX
(5) When Jane proudly displayed her new motherboad asked, "What kind of ICH does it have?" What	ard, the senior tech scratched his beard an could he possibly be asking about?
a) The AMR slot	b) The CNR slot
c) The Northbridge	d) The Southbridge
(6) What companies dominate the chipset market? (5)	Select two.)
a) ATI	b) Intel
c) NVIDIA	d) SiS
(7) Which of the following connectors is used for m	usical equipment?

a) PS/2

b) MIDI

r:	d) HDMI	
c) DVI	d) HDMI d be your first consideration?	
c) DVI (8) When choosing a new motherboard, what should	b) Desired CPU d) Feature Set	
a) Form Factor	d) Feature Set	
c) Price	ok of a PC would be used for?	
c) Price (9) A 15 pin, three row, female connector on the bac	b) Serial Port	
a) VGA/SVGA Port	d) HDMI Port	
c) Parallel Port	,	
(10) What voltages does an ATX12V P1 connector pr	ovide for the motherboard.	
a) 3.3 V, 5 V	b) 3.3 V, 12 V	
c) 5 V, 12 V	d) 3.3 V, 5 V, 12 V	
(11) How can you reduce the chance of ESD?		
a) Raise the temperature.	b) Lower the humidity.	
c) Work in a carpeted area.	d) Use an antistatic strap.	
(12) A Power Supply is rated in?		
a) Watts	b) Coulmbs	
c) Ampere	d) Volts	
(13) Which of the following port types most common	ly support printers? (Select two.)	
a) Parallel	b) USB	
c) Infrared	d) RS-232	
(14) What must never be connected to the same UPS		
a) laser printer	b) System unit	
c) Monitor	d) Keyboard	
(15) Why is the print drum given a negative charge?		
a) To attract the toner to every area of the drum	b) To attract the toner to the areas of the drum th at have a stronger negative charge	
c) To attract the toner to the areas of the drum th at have a weaker negative charge	d) To attract the positively charged paper to the p rint drum	
(16) What is another name for a dot-matrix printer?		
a) Impact printer	b) Page printer	
c) Spray printer	d) USB	
(17) What is the processor on a video card called?	the state of the s	
a) CPU	b) GPU	
c) GDDR	d) MPU	
(18) Which two technologies are used for backlights is	n LCD monitors?	
a) CCFL and LED	b) CCFL and LCD	
c) CCFL and AC	d) HDMI and DisplayPort	
(19) A label with the term "WARNING!" on it means	what?	
a) A software malfunction	b) A fire alarm	
c) A Potential for personal injury	d) A Potential for Hardware malfunction	
(20) We can align electron guns with help of	in That ware malfunction	
a) shadow mask	b) resolution	
c) pixel	d) refresh	
(21) Video controller also feature their own built-in	-, Mesii	
a) RAM	b) SRAM	
(4)	o) SIGNIVI	

at the second se		LIBRARY		
c) VRAM	d) DRAM	. Seamware Hiphogette.		
(22) Which RAID type provides 100% fault tolerance?	?	Bareed, Kolkato -700125		
a) RAID 0	b) RAID 1			
c) RAID 2	d) RAID 3			
(23) What is a main feature of the active partition of a	hard drive that is	using MBR?		
a) The Operating System uses the active drive to boot the system		rtition is the only Primary partiti		
c) There can be multiple active partitions.	STATE OF THE PARTY	ons are considered RAM.		
(24) What is the effect of using a larger block size in a				
a) It leads to poorer disk throughput and poorer disk space utilization		orer disk throughput but better di		
 c) It leads to better disk throughput and better disk space utilization 	d) It leads to be	d) It leads to better disk throughput and poorer di sk space utilization		
(25) What do registers provide for the CPU?	P	· ·		
a) Registers determine the clock speed		es registers for temporary storage ommands and data.		
c) Registers enable the CPU to address RAM.	d) Registers en ss bus.	d) Registers enable the CPU to control the addre		
(26) Which of the following terms are measures of C	PU speed?	* * * * * * * * * * * * * * * * * * * *		
a) Megahertz and gigahertz	b) Megabytes a	and gigabytes		
c) Megahertz and gigabytes		us, backside bus		
(27) Which feature enables a single-core CPU to fun	ction like two CPU	Js?		
a) Hyper-Threading	b) SpeedStep			
c) Virtualization	d) x64			
(28) Darren has installed a new CPU in a client's cones the power button on the case. The LED on the stem has power. What could the problem be?	mputer, but nothing ne motherboard is l	g happens when he push it up, so he knows the sy		
a) He forgot to disconnect the CPU fan.		apply thermal compound betwee and the heat-sink and fan assembly.		
c) He used an AMD CPU in an Intel motherboar d.	d) He used an d.	Intel CPU in an AMD motherboar		
(29) Amanda bought a new system that, right in the her a Blue Screen of Death. Now her system w xtensive troubleshooting, she determined that t t. Now the system runs fine. What was the most	on't boot at all, not the motherboard wa	t even to CMOS. After e as at fault and replaced i		
a) Burn-in failure	b) Electrostati			
c) Component failure	d) Power supp			
(30) Solon has a very buggy computer that keeps lo ntaneously. He suspects the motherboard. How		oments and rebooting spo		
a) Check settings and verify good components.	ing.	 b) Verify good components and document all test ing. 		
 c) Replace the motherboard first to see if the pro- blems disappear. 		ings, verify good components, repla tents, and document all testing		
(31) If Windows recognizes a device, where will it	appear?			
a) Device Manager	-	ws\System32\Devices		
c) Desktop	- · · · · · · · · · · · · · · · · · · ·	nove hardware applet		
(32) Each switch and LED on the front panel of a c	computer case has	a connector attached to it		

that must be attached to the appropriate pins on	the:	Bramware University
a) Riser card ·	b) Expansion slot	Barasat, Kotkata -700125
c) Motherboard	d) Power supply	
(33) What is the main advantage of selecting a 64-bit system?	operating system over	a 32-bit operating
 a) The ability to run multiple 16-bit programs in separate memory spaces 	b) The ability to use	
c) The ability to access more than 4 GB of RAM	d) The ability to use on prevention (DI	software-based data executi
(34) A path of circuitry that connects the CPU to the	expansion slots is called	1?
a) Wire	b) Bus	
c) Connections	d) Link	
(35) What sort of connector does a typical network in	terface card have?	
a) DB-9	b) Mini-DIN	
c) RJ-11	d) RJ-45	
(36) A modern printer usually plugs into which of the	following ports?	<u> </u>
a) DB-9	b) DB-25	
c) Mini-DIN	d) USB	
(37) What is the correct boot sequence for a PC?	*	
a) CPU, POST, power good, boot loader, operating system	b) POST, power good	l, CPU, boot loader, operati
 c) Power good, boot loader, CPU, POST, operati ng system 	- •	POST, boot loader, operati
(38) What does DMA stand for?	*	
a) Direct Module Access	b) Directory Memory	Access
c) Direct Memory Address	d) Direct Memory Ac	
(39) What sort of power connector does a floppy disk		
a) Molex	b) Mini	
c) Sub-mini	d) Micro	
(40) What should you keep in mind when testing DC		
a) DC has polarity. The red lead should always to uch the hot wire; the black lead should touch a ground wire.	b) DC has polarity. Th	e red lead should always t re; the black lead should al wire.
c) DC has no polarity, so you can touch the red le ad to either hot or ground.	d) DC has no polarity,	so you can touch the black neutral but not ground
41) What voltages should the two hot wires on a Mole	ex connector read?	and Bround
a) $Red = 3.3 V$; $Yellow = 5 V$	b) Red = 5 V; Yellow =	= 12 V
c) Red = 12 V ; Yellow = 5 V	d) $Red = 5 V$; $Yellow =$	
42) A PC's power supply provides DC power in what	standard configuration?	
 a) Two primary voltage rails, 12 volts and 5 volt s, and an auxiliary 3.3 volt connector 		ge rails, one each for 12-v
One primary DC voltage rail for 12-volt, 5-vol t, and 3.3-volt connectors	d) One voltage rail with he motherboard, a seal-volt connector for age rail for the 5-voltage.	h a 12-volt connector for t econd voltage rail with a 1 the CPU, and a third volt lt and 3.3-volt connectors
43) How many pins does a SATA power connector ha	ve?	
a) 6	b) 9	

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c) 12	d) 15
(44) Main motherboard power connectors typically of	consist of:
a) 40 pins	b) 24 pins
c) 34 pins	d) 68 pins
(45) When working on a computer, which of the foll ectrical shock?	owing should you disconnect to prevent el
a) Printer	b) Mouse
c) Power cord	d) Telephone cord
(46) Which function is performed by the external po	ower supply of a laptop?
a) Stores power	b) Increases voltage
c) Converts AC power to DC power	d) Converts DC power to AC power
(47) ESD occurs between two objects that have?	
a) Different Densities	b) Different electrical potentials
c) Different heights	d) Different Magnetic Poles
(48) With a laser printer, what creates the image on	the photosensitive drum?
a) Primary corona	b) Laser imaging unit
c) Transfer corona	d) Toner
(49) Which of these items are considered to be dot-	matrix printer consumables?
a) Drive motor	b) Print Head
c) Flywheel	d) Ribbon
(50) A standalone printer prints a test page just fine m paper. What's probably wrong?	e, but it makes gobbledygook out of your ter
a) Out of toner	b) Fuser error
c) Printer interface	d) Faulty software configuration
(51) Which tool would help you determine why a p	print job didn't print?
a) Printer driver	b) Printer setup
c) Print spooler	d) System setup
(52) On a laser printer, what moves the toner from	the drum to the paper?
a) Primary Corona	b) Transfer Corona
c) Laser Beam	d) Prism
(53) How does a thermal printer produce images?	
a) With heat and special thermal paper	b) Wth inkjet process
c) With laser printing technologies	d) With impact procedure
(54) Printer in which output is printed by use of light r is best classified as	
a) character printer	b) line printers
c) laser printer	d) beam printer
(55) Which of the following devices gives the pap	per a positive charge?
a) The transfer corona wire	b) The laser
c) The print drum	d) The registration rollers
(56) At what voltage is the paper charged?	
a) (+) 600V dc	b) (-) 600Vdc
c) (-) 100V dc	d) (+) 100Vdc1
(57) What device removes unused toner from the	
(37) what device removes unused toner from the	print druin:

a) Transfer corona wire	b) Static eliminator strip d) Cleaning blade
c) Laser	d) Cleaning blade
(58) What causes the ink to vaporize in an inkjet print	er?
a) Electrical pulses	b) A heating element within the ink cartridge
c) A solenoid in each chamber of the ink cartridg	d) Drying of the ink when the cartridge has not b een used for some time
(59) How many pins were in the early dot-matrix print	t heads?
a) 9	b) 12
c) 18	d) 44
60) What type of paper-feed mechanisms do dot-matr	ix printers use?
a) Continuous form feed	b) Friction feed
c) Friction continuous form feed	d) Inverted gravity feed