



National Council for Vocational Awards

Information Technology CITXX
(Clonmel Central Technical Institute)

Computer Architecture and Systems
C20012
May 2001

Answer all questions in Section A
Answer four questions from Section B

Time allowed: 2 hours

Section A	<p><i>All questions are 2.5 marks.</i></p> <p>Q4 <i>One point allocated per item. 2.5 marks given if both items provided.</i></p> <p>Q6 <i>.5 points per item. 2.5 marks given if four items provided.</i></p> <p>Q12 <i>One point allocated per item. 2.5 marks given if both items provided</i></p> <p>2.5 marks = student has answered correctly and shows clear understanding</p> <p>2.0 marks = student appears to have a grasp of the subject matter but is not completely correct</p> <p>1.0 marks = student appears to have some understanding of the matter</p> <p><i>Answers different to the suggested answers which are nonetheless correct will be marked as being correct.</i></p>
	Suggested/Guideline Answers
1	64Kbps
2	1024
3	Disk capacity, RAM amount, bus types, software bundles (for new PCs), peripherals lists <i>etc.</i>
4	ZIP disk/ removable harddisk, tape, CD-RW
5	Removal/deletion of a file/directory
6	Any four of: keyboard, mouse, scanner, microphone, touch-sensitive screen, digital camera <i>etc</i>
7	Stores computer programs while they run.
8	Optical character recognition
9	195
10	Modem
11	Any of: speed, capacity, reliability
12	Any two of: speed, cost, variety of transmittable data types

Section B	<p><i>All questions are 15 marks. Points allocated as shown below.</i></p> <p><i>Answers different to the suggested answers but which are nonetheless correct will be marked as being correct.</i></p>
	Suggested/Guideline Answers
1	<p>(a) Distinguishing statement: 7 marks</p> <p>(b) Two examples 2 marks each</p> <p>(c) Two advantages/disadvantages 2 marks each</p>
2	<p>Any 8 of: RAM, CPU, printer, mouse, keyboard, scanner, modem, video card, monitor, sound card, speakers, network adapter, digital camera, harddisk, floppy disk, zip drive, cdrom drive, cd-burner etc.</p> <p>2 marks per item up to a maximum of 15 marks.</p>
3	<p>(a) Magnetising and demagnetising coated disk surface. Diagram. (7 marks)</p> <p>(b) SCSI/IDE; Speed/Cost; 7 (+) drives/4 drives; Servers/Workstations; (8 marks)</p>
4	<p>Hardware (PC, Modem, phone line) Software (OS, TCP/IP, Browser) Service (ISP, Telephone)</p> <p>0-5 marks: student made attempt but is clearly unsure 6-10 marks: student knows answer but isn't completely clear/sure 11-15 marks: student is well versed and shows this.</p>
5	<p>Hardware (PC, NIC, cabling, (hubs)) Software (OS, TCP/IP)</p> <p>0-5 marks: student made attempt but is clearly unsure 6-10 marks: student knows answer but isn't completely clear/sure 11-15 marks: student is well versed and shows this.</p>