

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 | All questions are 2.5 marks. Q4 One point allocated per item. 2.5 marks given if both items provided. Q6 .5 points per item. 2.5 marks given if four items provided. Q12 One point allocated per item. 2.5 marks given if both items provided 2.5 marks = student has answered correctly and shows clear understanding 2.0 marks = student appears to have a grasp of the subject matter but is not completely correct 1.0 marks = student appears to have some understanding of the matter Answers different to the suggested answers which are nonetheless correct will be marked as being correct. |
|-----------|--|
| | 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 | All questions are 15 marks. Points allocated as shown below. |
|-----------|---|
| | Answers different to the suggested answers but which are nonetheless |
| | correct will be marked as being correct. |
| | Suggested/Guideline Answers |
| 1 | (a) Distinguishing statement: 7 marks |
| | (b) Two examples 2 marks each |
| | (c) Two advantages/disadvantages 2 marks each |
| 2 | 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 <i>etc</i> . |
| | 2 marks per item up to a maximum of 15 marks. |
| 3 | (a) Magnetising and demagnetising coated disk surface. Diagram. (7 |
| | marks) |
| | (b) SCSI/IDE; Speed/Cost; 7 (+) drives/4 drives; Servers/Workstations; (8 |
| | marks) |
| 4 | Hardware (PC, Modem, phone line) Software (OS, TCP/IP, Browser) |
| | Service (ISP, Telephone) |
| | |
| | 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. |
| 5 | Hardware (PC, NIC, cabling, (hubs)) Software (OS, TCP/IP) |
| | 0. E market attidant made attemnt but is algerly ungure |
| | 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. |