

IGCSE ICT - Practice Questions

1. Write down 2 advantages of customizing off the shelf software.
2. Write down 2 ways an off the shelf software can be customized
3. What are the differences between a user guide and a technical guide?
4. Briefly explain the types of outputs in relation to the audience (chapter11)
5. What are the differences between serial and direct access in terms of two example systems?
6. Wireless networks are becoming more and more popular despite the security concerns they have. Discuss the advantages and disadvantages of wireless networks.
7. Discuss how a company can make use of LANS and WANS to make their work more efficient.
8. Explain the differences between Wi- Fi and Bluetooth with 2 examples.
9. Narrowband internet connection is now almost out of use. What has replaced narrowband, and explain how this method is far better than narrowband.
10. Websites are a form of marketing nowadays. Identify four things websites use to entice/ attract the customers.
11. What is web 2.0? And discuss how users can interact in a web2.0 platform.
12. How does a directory list narrow down a search, compared to keywords used in search engines?
13. What are the advantages of maintaining an intranet to a company?
14. What are the advantages of maintaining an extranet to a company?
15. What are the differences between an intranet and extranet?
16. Discuss the differences between web mail and email client.
17. What are the differences between mailing lists and electronic newsgroups?
18. What is a web ring, how does a company benefit by joining a web ring?
19. What are the differences between phishing attacks and pharming?
20. Filter software can be used to monitor individual's computer usage. Explain how features of filter software can be used by the admin in a school network to control access of students.
21. Explain how a hotel reservation system can be considered as an online real time system. Give examples.
22. In a complete supermarket system various data processing systems can be identified. Justify this.
23. Explain the computer's role in a process controlled industrial situation.
24. Discuss the ways that the user can stay safe and protect personal data in the open and free environment that internet has created.

Application and effects of ICT 1

1. Briefly describe 3 validation checks that can be carried out in a payroll system
2. State two differences between a Master File and a Transaction File
3. What is batch processing?

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4. Briefly discuss how a payroll can be classified as a Batch Processing system.
5. Identify 3 hardware devices used in a payroll program mention a use of each
6. Explain why a conventional backup system cannot be used in a real-time system such as Airline Reservation
7. Explain two differences between a Batch Processing and Real-time system
8. Explain how the check digit is used in a barcoded good when it is scanned at POS terminal
9. Explain how a stock control system in a super market as an online Interactive processing system
10. "Nowadays we are heading for a cashless society."

Explain this with reference to Chip and Pin and EFT

Application and effects of ICT 2

- 1) Write three advantages of using CAD
- 2) Write down 3 advantages of using CAM
- 3) What is process control and state two industries where process control is used
- 4) Explain why process control still require human supervision. Give an example
- 5) State why process control is essential in industrial applications.
- 6) Write down 3 types of CAL systems and briefly describe what each is used for.
- 7) State two advantages and two disadvantages of using a medical expert system.
- 8) Briefly describe a situation where a job role has changed as an impact of ICT.
- 9) "Data must be stored securely and protected from unauthorized access and use". Discuss the measures that you can implement by adhering to the above principle. (6 marks)
- 10) Explain what identity theft is and describe how spyware can lead to this.
- 11) Explain three hardware safeguards and four software safeguards with examples.
- 12) Describe 5 behavioral steps that you can take to safeguard from Internet criminals
- 13) Discuss how software piracy has affected individuals and companies and what measures have been taken to reduce this. (6 marks)

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Areas of concern

1. Configuration of Computers – Processor speeds / units used to measure / RAM / Cores / Cache / Bus Speed / Word Size
2. Bluetooth – uses / advantages / disadvantages
3. Online shopping / e-commerce / EFT / EFTPOS
4. Networks – WAN / uses / advantages. Disadvantages
5. Software license – advantages of having license to developers and customers
6. Different licensing arrangements
7. Operating systems – functions / interfaces / interface features
8. User guide Vs technical guide
9. Pharming
10. Data encoding
11. Data encoding Vs Data encryption
12. Physical security / threats and solutions / protecting data using physical security
13. URL / Email address structure
14. DPA – how company has to abide by the act / how people are protected
15. Custom written software / customized / off the shelf – their features / advantages / disadvantages
16. Serial / sequential / direct access – with regard to different systems eg: airline reservation
17. Process control – advantages / disadvantages / usage
18. WEP / WPA
19. Extranet Vs. intranet
20. Specific advantages for a company moving from Intranet to an extranet
21. Mail client Vs. Webmail