

Course: Basics of ICT (1431)

Semester: Autumn, 2012

Level: B.A

Total Marks: 100

IMPORTANT QUESTIONS FOR FINAL EXAM

- Q. 1 (a) What are the four fundamental components of a personal computer (PC) system? List the major differences between a PC and workstation.
- Q. 1 (b) List and explain some important characteristics of a computer.
- Q. 2 (a) What are the functions of the Control Unit, and Arithmetic and Logic Unit?
- Q. 2 (b) What is the relationship among a microprocessor, motherboard, and personal computer?
- Q. 2 (c) List key hardware and software technologies used in building computers of each of the five generations.
- Q. 3 (a) What is a plotter? What type of users need it? Explain the working mechanism of a drum plotter and a flatbed plotter.
- Q. 3 (b) What is a voice response system? Explain the two types of voice response systems. What are the main applications of the voice response systems?
- Q. 4 (a) What do you mean by point and draw devices? List and describe them briefly.
- Q. 4 (b) Present a comparison of speech recognition devices and vision based devices.
- Q. 5 (a) What is the basic difference between SDRAM technology and nonvolatile memory technology?
- (b) What are the three main categories of optical laser disks?
- Q. 5 (a) What is the relationship between the operating system, the GUI, and application software? What are the main functions of an operating system?
- (b) What are the parameters for measuring the efficiency and performance of a computer system?
- Q. 6 (a) What is the main difference among multiprogramming, multiprocessing, and multithreading?
- (b) What is a time sharing system? What are the hardware and software requirements of a time sharing system? What are its main advantages?
- Q. 7 (a) What are the major steps involved in the development of a software?
- (b) Name and explain some commonly known application software?
- Q. 8 (a) What is an optical fiber? How it is used for data communication? What are its advantages?
- (b) What is network topology? Describe three network topologies in common use. Write their relative advantages and disadvantages.
- (c) What are the main differences between different switching techniques?
- Q. 9 (a) What is multimedia? Write some examples of multimedia applications in education and entertainment.
- (b) Differentiate between animation and video. Explain the difference with few examples.

- Q. 10 (a) Explain computer generation. Also discuss the technical progression of each generation in terms of primary operational, size, economic, powerful, effectiveness and reliability.
- Q. 10 (b) Define software. Also describe the major types of software with their significance, usability, and interfacing capabilities.
- Q. 11 (a) Differentiate between static RAM and dynamic RAM.
- Q. 11 (b) Discuss the various computer buses available on the motherboard of general purpose PC system.
- Q. 12 (a) What do you mean by input and output devices that are used for multimedia? Also write down the characteristics of those devices which are used for both input and output function.
- Q. 12 (b) What is control panel? Discuss the most important utilities provided by control panel for computer management and security.
- Q. 13 (a) Discuss the importance of email in our society. Give ideas for effective usage of email for educational and research development.
- Q. 13 (b) What are the four fundamental components of a personal computer system?
- Q. 14 (a) What do you mean by a computer virus? What are the main type of computer viruses that harm software and hardware?
- Q. 14 (b) What do you mean by a programming language? What are the main types of programming languages? Discuss at least three languages in detail.
- Q. 15 (a) What are the three main categories of optical laser disks?
- Q. 15 (b) Describe at least two applications where rewriteable optical laser disks would be preferred over hard disks for storage.
- Q. 16 (a) Explain with the help of a diagram the four basic steps involved in speech recognition.
- Q. 16 (b) What is meant by windows? Differentiate windows and non-windows applications? What are three types of windows?
- Q. 17 (a) Describe the function of word processing software.
- Q. 17 (b) Write an introduction to ICT and definitions, ICT Application Examples, ICT as an Aid to Computer Teaching and learning
- Q. 18 (a) Describe the major types of Computer, Classification of Computer, and Applications of Computer.
- Q. 18 (b) What is Software? Explain the various types of Software and differentiate between the Application Software and System Software.