

كلية المشرق للعلوم والتكنولوجيا

امتحانات نهاية الفصل الدراسي 2008 / 2007



المادة: تطبيقات الوسائط المتعددة	القسم: الوسائط المتعددة	المستوى : الثالث
الزمن : ساعتان	عدد الصفحات 2	التاريخ: 2008/ 4/ 7م

1. Give a general definition of multimedia.
2. Hypertext navigation depends on the application at hand. Discuss.
3. What is hypermedia? Illustrate a typical example
4. Give a short note on virtual reality and its uses.
5. List the major parameters that characterize multimedia systems.
6. Why multimedia systems need a special hardware?
7. what is RAID technology ?
8. Give acceptable hardware specification for a typical multimedia hardware.
9. Compare between text, graphics and videos in terms of hardware requirements.
10. Compare between different digital audio quantities and propose a solution for the high demand on storage.
11. How many megapixels per frame represent a high definition DVD? Compare with the PAL digital video. Propose an acceptable solution for this problem.
12. What is synchronization?
13. Distinguish between
 - a. Static and continuous media
 - b. Analog and digital signal
 - c. ADC and DAC
14. How do we capture and store multimedia formats (briefly)
15. What are the requirements for a successful compression.

16. What is the difference between the sound and light?
17. Explain how computers manipulate sounds.
18. How do we quantify sample values?
19. State and explain the Nyquist's sampling theorem.
20. The critical bandwidth for average human hearing is a constant 100 Hz for frequencies less than 500 Hz and increases linearly by 100 Hz for each additional 500 Hz.
 - a. Given a frequency of 300 Hz, what is the next highest integer frequency signal that is distinguishable by the human ear assuming the latter signal is of a substantially lower amplitude?
 - b. Given a frequency of 5260 Hz, what is the next highest (integer) frequency signal that is distinguishable by the human ear, assuming the latter signal is of a substantially lower amplitude?