

Comp121 Midterm Exam

Exam Date: November 11, 2012
 Exam Time: 80 Minutes

Midterm Exam
 Fall- 2012-2013

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 Section Number: 9

Please Select Your Teacher							
Fakhri	<input type="checkbox"/>	Maram	<input type="checkbox"/>	Abdullah	<input type="checkbox"/>	Dima	<input type="checkbox"/>
Ola	<input type="checkbox"/>	Laila	<input checked="" type="checkbox"/>	Asma	<input type="checkbox"/>		

Question	Mark
1	40 42.5
2	3.6
Total	70 78.5

Question # One: (50 Marks)

Select the best answer for each of the following questions and put your answers in the given Table at page 5.

1) Which of the following Storage devices is sequential data access (data retrieved or written from sequentially)?

- A. Flash memory sticks
- B. Magnetic tape
- C. Hard Disk
- D. CD-ROM

2) Laser printer is considered to be:

- A. Non-impact input device
- B. Non-impact Output device
- C. Impact input device
- D. Impact Output device

3) The decimal number (12) written in Binary:

- A. 1010
- B. 1100
- C. 1001
- D. None of the above

4) The binary number (10) written in decimal

- A. 10
- B. 4
- C. 2
- D. None of the above

5) Which of the following units is responsible for executing logical and arithmetic operations:

- A. Control Unit
- B. ALU
- C. RAM
- D. None of the above

6) Which of the following is volatile device

- A. Hard disk
- B. Read only Memory
- C. Random Access memory
- D. Magnetic Tape

7) How many bytes in GB. approximately

- A. 1,000,000 bytes
- B. 10^9 bytes
- C. 10^{10} bytes
- D. None of Above

Handwritten conversion of 12 to binary:
 $12 \div 2 = 6$
 $6 \div 2 = 3$
 $3 \div 2 = 1$
 $1 \div 2 = 0$
 Reading from bottom to top: 1100

Handwritten conversion of 10 to binary:
 $10 \div 2 = 5$
 $5 \div 2 = 2$
 $2 \div 2 = 1$
 $1 \div 2 = 0$
 Reading from bottom to top: 1010

Handwritten conversion of 8 to binary:
 $8 \div 2 = 4$
 $4 \div 2 = 2$
 $2 \div 2 = 1$
 $1 \div 2 = 0$
 Reading from bottom to top: 1000

Handwritten conversion of GB to bytes:
 Bit
 Byte
 M
 G

Handwritten calculation:
 ~~$1000 \times 1000 \times 1000$~~
 $GB = 1000 \text{ MB} \times 1000_2 \text{ Bytes}$

Handwritten conversion of GB to bytes:
 Byte
 M
 G

- 8) Which of the following connect the units on the mother board
- A. ports
 - B. busses
 - C. modem
 - D. peripherals
- 9) The computer that provides other computers connected to the network with access to data, programs, or other resources:
- A. Workstation
 - B. laptop
 - C. server
 - D. none of the above
- 10) When you are working on an unsaved document on a PC, where is the document temporarily stored?
- A. RAM
 - B. ROM
 - C. The CPU
 - D. Hard disk
- 11) Which of the following is both an input and an output device
- A. A bar-cod reader
 - B. Scanner
 - C. Sensor
 - D. screen
- 12) The program that is responsible of booting process is stored at
- A. ROM
 - B. RAM
 - C. Hard disk
 - D. Flash Memory
- 13) CPU in the same family are generally designed to be
- A. Forward compatible
 - B. Backward compatible
 - C. Nom compatible
 - D. None of the above
- 14) All of the following are types of optical disk except
- A) CD
 - B) DVD
 - C) MFD
 - D) BD

Question Two

(50 Marks)

1. Differentiate between

(8 marks)

Primary Storage and Secondary Storage

And give an example on each one.

primary storage: RAM ذاكرة الوصول العشوائي
ذاكرة الرئيسية (تخفظ) المعلومات والبيانات بشكل مؤقت
secondary storage: ~~disk hard disk~~ ذاكرة الثانوية
~~تخفظ~~ المعلومات والبيانات بشكل دائم

2. List 4 different types of ports, and state the purpose of using ports.

(10 marks)

- 1- Mouse and key board ports: فقط يعمل على الاتصال بين الكمبيوتر و كيبورد والماوس
- 2- serial ports: يعمل على ارسال واستقبال البيانات
من قبل مجموعة
- 3- ~~poentet~~ Parallel ports: يعمل على ارسال واستقبال البيانات
من قبل واحد في نفس الوقت

3. What are added values of the integrated circuits over the transistors and the vacuum tubes

(8 marks)

- 1) smaller size
 - 2) (أكثر سرعة) سرعة في الاداء
 - 3) (موتروعة عالية) موثوقية عالية
 - 4) تخزين أكثر للمعلومات
 - 5) more powerfull
- smaller size
higher speed
more efficiently
higher ~~size~~

4. Differentiate between:

Special-purpose computer(embedded) and general purpose computer and give an example on each one? (8 marks)

special purpose : اجهزة حاسوب مدمجة
لعمل وظيفة خاصة معينة مثل التحكم بدرجة الحرارة.
general purpose computer : ~~هي~~ ^{هي} مائة التي تخزن عليها هذه الاوامر وتكون بين 16 ميجابايت 4

5. CPUs in the same family are backward compatible what do we mean by backward compatible? (8 marks)

ان المارة المصنوعة منها ذاكرة الوصول العشوائي ~~من~~ ^{من} نفس النوع
ويسمى backward compatible 2

is not necessarily * ان يكون البرامج متوافق مع جميع USP
ليس ضرورياً ان يتوافق البرنامج مع كل اجراء USP
ومعهم

6. Order the following devices from fastest to slowest

Hard disk, Ram, CD-ROM, Magnetic tape (8 marks)

Fastest slowest
~~Hard disk~~ - ~~Hard disk~~ - CD-Rom - Magnetic tape
Ram 1 2 3 4
8