

Misurat University ____ College of Engineering

Spring 2014/2015

Department: General

Final Exam: English 2

Time: 2hrs

Date 6\8\2015

Teacher:

Name: Index no

Read the passage carefully then answer the questions below.

Electronics is branch of engineering and physics. It deals with the **emission**, behavior, and effects of **electrons** for the **generation, transmission, reception**, and **storage** of information. This information can be **audio signals** in a radio, **images (video signals)** on a television screen, or numbers and other data in a computer. **Electronic systems** are important in communication, **entertainment**, and **control** systems.

Electronic circuits consist of interconnections of electronic components, at the heart of which are **semiconductors**. **Transistors**, which are made of **silicon** or **germanium**, are made from semiconductors. Commercial products range from **cellular radiotelephone systems** and video cassette recorders to high-performance **supercomputers** and sophisticated **weapons systems**. In industry, electronic devices have led to dramatic improvements in productivity and quality. For example, **computer-aided design** tools facilitate the design of complex parts, such as aircraft wings, or intricate structures, such as **integrated circuits**.

The development of microelectronics has had a major impact on the electronics industry. Electronic components are expected to deliver ever higher performance, while electronic circuits continue to benefit from miniaturization.

A- function of electronic circuits.

amplification * demodulation * electronic processing * generation *
information extraction * modulation * radio wave * recovery (of audio signal)

B- Electronic components

absorb * active * battery * capacitor * energy * generator * inductor passive *
resistor * transducer * transistor * vacuum tube * valve

C- Impacts

device size * digitization * fidelity * high speed * increased reliability *
manufacturing cost * storage capacity * storage system * ultrahigh image
definition

Question one: Choose the correct word in the following sentences.

- 1- **Transistor / inductors** are the key components in electronics.
- 2- They consist of three layers of silicon **semiconductor / superconductor**.
- 3- All **electronic / electrical** systems consist of input, a processor and output.
- 4- The input **receives / resists** and converts information while the output converts supplies electronically processed information.
- 5- The memory may not be present in simple system, but its function is the **storage / transmission** of information for the processor.
- 6- Continual developments in electronics give us increased **reliability / recovery** in electronic devices.

7- Electronic equipment controls **microprocessor / microwaves** in, for example weapons systems, cellular radiotelephone systems and domestic appliances.

8- Electronic devices have improved our lives by providing high quality **communication / combination** and entertainment.

(8 POINTS)

Question two: Use the words in brackets to form a word which fits in the sentence.

1- The weak audio signal entering a radio isby thethus making it audible. (amplify)

2- Computer games are just one example of electronic system being used for(entertain)

3- Due to developments in mobile telecommunication systems. A newof mobile phone is now available. (generate)

4- IC stands forcircuits. (integrate)

5- Computer software isif it does what a manual says it should. (rely)

6- One area of electronics is concerned with theof information. (store)

7- Theof signals is to satellites is made by microwaves. (transmit)

8- A computer chip is capable of holding vast amounts ofinformation. (store)

9-of speech was first carried out throughof the amplitude of a radio signal. (transmit, modulate)

10- In a laser, energy is released in the form oflight. (emit)

(12 POINTS)

Question three: Write the missing words in the word table below.

Noun	Verb	Adjective
.....	activate	active
amplification	.....	amplified
emission	emit	.....
.....	.....	entertaining
entertainment	entertain	.....
.....	.....	extracted
integration	integrate	.....
.....	receive	received

(10 POINTS)

Question four: What is being described? Find a word or phrase from the list below.

Junction box * short circuits * robotics * signal * radar * fiber optic * circuit breaker * branch circuit * device * laser.

1- It produces a narrow beam of light and can be used to read barcodes in a supermarket, play compact disk, etc.

2- A word to describe any piece of equipment made for a specific purpose.

3- A pulse of light, current or sound that used to convey information.

4- A device that uses electromagnetic waves to calculate the distance of an object.

5- Glass fibres that are used for data transmission.

6- The study of how robots are made and used.

7- A circuit where the current has a choice of paths.

8- A situation where the electrical current takes an easier path than the one intended.

9- A piece of equipment that stops an electrical current if it becomes dangerous.

10- A connection point where several cables are connected.

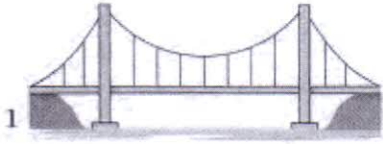
(10 POINTS)

Question five: Combine one word from A and one word from B to form C.

A	B	C
Create	products	.....
Central	information	.....
Software	processing unit	.....
Display	card	.....
Digital	files	.....
Expansion	network	.....
Integrated	data	.....
Computer	circuits	.....
Work	board	.....
Key	station	.....

(10 POINTS)

Question six: (A) Name the bridges below



.....



.....



.....



.....



.....



.....

(6 POINTS)

(B) Fill in the blanks with a word from the list.

Cosmetic stiff fast drying insecticide

1- Farmers use this to kill insect:

2- This describe a plastic that doesn't bend:

3- This industry makes soaps and beauty aids:

4- This describe a paint which dries quickly:

(2 POINTS)

(C) Express each of these ideas as compound.

1- a board consisting of a number of panels.

2- material that doesn't allow water to get into it.

3- material that doesn't allow rain to get into it.

4- material that doesn't allow dust to get into it.

(2 POINTS)

GOOD LUCK