



**Mansoura University**  
**Faculty of Engineering**

**English 2**  
**Course Code: UNR 032**  
**Fall Semester Exam.**



**Biomedical Engineering Program**  
**Level 000**  
**Exam Date: 11-1- 2017**  
**Allowed Time: 2 Hours**

*Attempt all questions. Assume any missed data. Full mark is 50*

**I. Answer the following questions: (10 marks)**

1. What is 'engineering'?
2. What is 'biomedical engineering'?
3. What are biomedical engineers concerned with?
4. Define 'electrical engineering'.
5. What are the main tasks of mechanical engineers?

**II. Supply the missing words: (10 marks)**

1. The majority of our engineering products are of iron or .....
2. The iron ore contains some impurities which must be removed by .....
3. Metals are blended together to form an .....
4. A man who studies the science of metals is called a .....
5. The study of the structure of metals is called .....

**III. Choose the correct answer: (10 marks)**

1. (Besides – Beside), I need to tell you about the importance of biomedical engineering.
2. Their (propose – proposal) to build a bridge across the river was approved by the responsible minister.
3. This drawing is a perfect (complement – compliment) to the design.
4. The assistant engineer did not give (much – many) information.
5. The boys are playing with (their – theirs) toy cars.

**IV. Put the verbs in parentheses into the correct form when necessary:**  
**(10 marks)**

1. He (go) to the gym every week.
2. She insists on (leave) early.
3. I (call) Linda last night.
4. Right now Tony (wash) his car.
5. Playing video games (be) popular among children nowadays.

**V. Identify the underlined word or phrase A, B, C, or D that should be corrected or rewritten.** (10 marks)

1. The amount of women earning Master's Degrees has risen sharply in recent years.  
A B C D
2. In 1955 the Hawaii was admitted to the Union as the 50th State.  
A B C D
3. Today we know that the earth is one of nine planets who orbit the sun.  
A B C D
4. It was your school counselor which called you.  
A B C D
5. She goes with they to the movies.  
A B C D

*With my best wishes*



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**English 2**  
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**Key Answer**



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**Attempt all questions. Assume any missed data. Full mark is 50**

**I. Answer the following questions: (10 marks)**

**1. What is 'engineering'?**

Engineering is the science, discipline, art and profession of acquiring and applying technical, scientific and mathematical knowledge to design and implement materials, structures, machines, devices, systems, and processes that safely realize a desired objective or invention.

**2. What is 'biomedical engineering'?**

Biomedical engineering is a branch of engineering which combines engineering principles with medical needs for the enhancement of health care. It is the branch of engineering in which knowledge and skills are developed and applied to define and solve problems in biology and medicine.

**3. What are biomedical engineers concerned with?**

Biomedical engineers are concerned with developing devices and procedures that solve medical and health problems by combining their knowledge of biology and medicine with engineering principles and practices. They are also concerned with doing researches, along with medical scientists, to develop and evaluate systems and products such as artificial organs, artificial devices that replace missing body parts, instrumentation, medical information systems, and health management and care delivery systems.

**4. Define 'electrical engineering'.**

Electrical engineering, sometimes referred to as 'electrical and electronics' engineering, is a field of engineering that generally deals with the study and application of electricity, electronics, and electromagnetism.

## **5. What are the main tasks of mechanical engineers?**

Mechanical engineers design or redesign mechanical and thermal devices or subsystems using analysis and computer-aided design. They also analyze problems to see how mechanical and thermal devices might help solve a particular problem. Some examples of products and processes developed by mechanical engineers include engines and control systems for automobiles and aircraft, electric power generation plants, lifesaving medical devices and consumer products ranging from air conditioners to personal computers.

### **II. Supply the missing words: (10 marks)**

1. The majority of our engineering products are of iron or steel.
2. The iron ore contains some impurities which must be removed by smelting.
3. Metals are blended together to form an alloy.
4. A man who studies the science of metals is called a metallurgist.
5. The study of the structure of metals is called metallography.

### **III. Choose the correct answer: (10 marks)**

1. (Besides – Beside), I need to tell you about the importance of biomedical engineering.
2. Their (propose – proposal) to build a bridge across the river was approved by the responsible minister.
3. This drawing is a perfect (complement – compliment) to the design.
4. The assistant engineer did not give (much – many) information.
5. The boys are playing with (their – theirs) toy cars.

**IV. Put the verbs in parentheses into the correct form when necessary:**  
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1. He (goes) to the gym every week.
2. She insists on (leaving) early.
3. I (called) Linda last night.
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