



**(I) Textbook:**

**A- Answer the following questions:**

- 1) How are the products of technology related to one another?
- 2) What is the relationship between society and technology?
- 3) What is the process of fusion?
- 4) What are the new possible source of energy?
- 5) What are the conventional source of energy?

**B. Put True (✓) or False (X):**

- (1) The atmosphere presses down on us.
- (2) We can feel the weight of the atmosphere.
- (3) Air only exerts pressure upwards and sideways.
- (4) Air exerts an upward pressure.

**(II) Grammar and Structure:**

**A. Choose the correct answer;**

1. She (goes - go - went) to Alex last summer.
2. I usually (wake up - woke up - wakes up) early.
3. (Either - Neither - Both) fixed and variable resistors are made.
4. This e-mail (sends - sent - was sent) by my best friend.
5. Your stomach pain is the (effect – affect – effective) of over eating
6. (Although - But - And) Ahmed likes bananas; I don't like them at all.
7. I'm not going anywhere today (because - because of - so that) the rain.
8. The letter (being – is – is being) typed now by the secretary.
9. The instructor (will answer - answer - answers) the questions tomorrow.
10. In old days people (travel – traveled – travels) on horsebacks.
11. English (is speaking - speaks - is spoken) all over the world.
12. He looked (up - into - about - after) the new words in his dictionary.
13. The focus control is (for – to – on) focusing the electron lens.
14. If we had taken your advice, we (saved - would save - will save –would have saved) a lot of time.
15. (Unless - Because - Although) all metals are conductors, some metals do not conduct.

### **III: Reading comprehension**

#### **Read the following passage and then answer the questions:**

Using sunlight as a source of energy offers considerable advantages. Light from the sun is practically inexhaustible and is available everywhere. Changing sunlight directly into electrical energy involves the use of photovoltaic cells or solar cells and these use no fuel. A solar cell comprises two layers of the element Silicon. Each layer is chemically treated to produce what is known as a p-type layer and n-type layer. When they join is a region called a p-n junction. When sunlight strikes the p-n junction a voltage is generated. However the voltage produced by one solar cell is very small and for this reason many solar cells are connected together to form an array called solar panel. Up until the present time they have generally been used to charge batteries or operate electrical systems in space vehicles.

#### **A- Answer the following questions :**

- 1- What are the advantages of sunlight as a source of light?
- 2- Give another expression for solar cell.

#### **B- Choose the correct answer :**

- 1- By joining many solar cells together we can build.....  
a- solar panel                      b- p-n junction                      c- solar cells
- 2- Solar cells are made of.....  
a-solar panel                      b- solar cells                      c- Silicon
- 3- The region where a p-type layer and n-type layer join is known as a.....  
a- solar panel                      b- p-n junction                      c- n-type layer

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### **IV- Writing a paragraph**

#### **Write a paragraph on only ONE of the following topics:-**

1. Mechanical Engineering.
  2. Properties of Air.
  3. Solar Energy.
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*Good Luck*



**(I)Textbook:**

**A- Answer the following questions:**

- 1) Almost all innovations are produced from previous innovations.
- 2) Technological innovations affect society and help to change the environment.
- 3) Joining light atoms together.
- 4) Solar energy.
- 5) Fuel.

**B. Put True (√) or False (X):**

- 1) (√)      2) (√)      3) (X)      4) (√)

**(II) Grammar and Structure:**

**A. Choose the correct answer;**

- 1) Went                      2) wake up                      3) Both                      4) was sent                      5) effect
- 6) Although                      7) because of                      8) is being                      9) will answer                      10) traveled
- 11) is spoken                      12) up                      13) for                      14) would have saved                      15) Although

**III: Reading comprehension**

**C- Answer the following questions :**

- 1- Light from the sun is practically inexhaustible and is available everywhere.
- 2-Photovoltaic cells

**D- Choose the correct answer :**

- 4- By joining many solar cells together we can build.....  
b- solar panel
- 5- Solar cells are made of.....  
c- Silicon
- 6- The region where a p-type layer and n-type layer join is known as a.....  
b- p-n junction

**IV- Writing a paragraph**

Writing is assessed by the examiner.