



Faculty of Engineering  
Subject: English

Mechanical 1<sup>st</sup> year  
year: 2014/2015  
Time: 2 hour

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**1- Text Book**

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

- 1- Compare between water- cooled engines and air- cooled engines.
- 2- What's the main function of GPS devices? Support your answers with examples.

**B. Rephrase the following sentences:**

- 1- Air- cooled engines always have fins around the cylinder.
- 2- The space elevator needs a strong cable to support its own weight.
- 3- The drift alarms make an alarm sounds to warn.
- 4- He has promised that I will be involved in the film-making.

**C. Correct the wrong information given in each sentence:**

- 1- Communication technologies in offices are used for chatting and getting more friends.
- 2- Computers were first developed by statisticians.
- 3- Man overboard buttons prevent the boat from drifting unnoticed.
- 4- Accuracy is always the main selling point of any device.

**1- Structure and Grammar**

**A. Do as shown in brackets:-**

- 1- Cars always have the engine at the back. (Correct)
- 2- You've noticed how they tend to become independent. (Replace the underlined part with a noun)
- 3- I haven't received the letter. It should.....to the wrong address. (Complete)
- 4- Music in your country is quite similar to my country. (Correct)
- 5- We should have boiled water into a tin can. (Make passive)
- 6- She wants not only to take a trip to Europe but also she would like to travel to Asia. (Correct)
- 7- I hope they will allow you (to collect – collecting – collect) the material you need. (Choose)
- 8- The silicon chip started a revolution. I suppose it was inevitable. (Use: that)
- 9- This cylinder has a water jacket. (Use: there)
- 10- A. Gerard bought a fax machine.

B. A fax machine was bought by Gerard. (Choose the best structure)

### III: Reading comprehension

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

Solar power is technology that uses energy from the sun. The sun's heat and light can be turned into electricity. Scientists are now working on ways to use solar power instead of petrol for vehicles. Solar-powered vehicles have batteries which are charged by the sun's rays. Unfortunately, the batteries run out very quickly and it takes a long time to charge them again. Some British students who were studying science in Oxford decided to build a solar-powered bicycle and enter an international race. They had to raise money for the project and train for the race. **Local** companies helped by giving them money and equipment. The race was in a place where the land is flat and the sun shines strongly. The riders had to do 7 laps of the course. Then they had a two-hour break to recharge their batteries. Finally, they had to do 5 more laps. Each lap was 4 km long. The team finished second and they were very pleased with the result.

#### A) Answer the following questions:

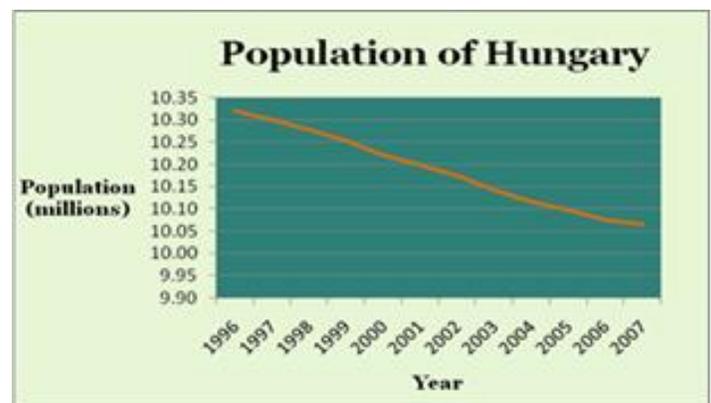
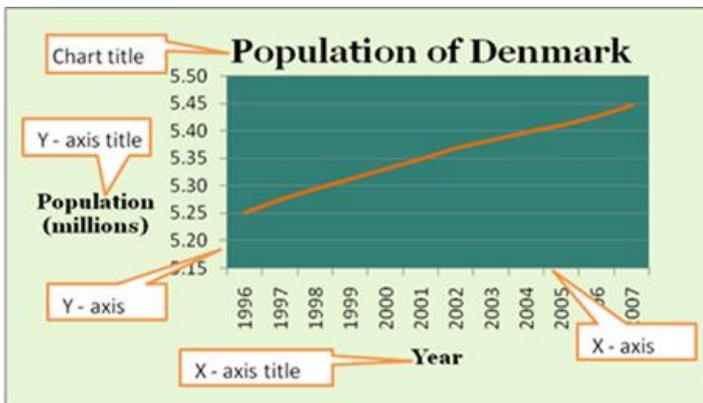
1. Where does the solar energy come from?
2. What disadvantages do solar-powered vehicles have?
3. How could the students raise money for their project?

#### B) Choose the correct answer from a, b, c or d:

4. How long was the race?  
a) 52 km.                      b) 48 km.                      c) 12 km.                      d) 4 km.
5. The underlined word "**Local**" means something which.....  
a) Has money                                              b) involves many countries  
c) Relates to a particular place                      d) makes technology

### IV- Writing a paragraph

#### Describe ONE of the following graphs :-



*Good Luck*



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**2- Text Book**

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

1- Water- cooled engines: car-engines always have a water jacket around the cylinder – have a fan at the front - always have radiator – at the front of the car and sometimes at the back or in the middle,

And air- cooled engines: motorcycle engines – have fins around the cylinder - sometimes have a fan at the front – no radiator - the engines are at one side of the motorcycle.

2- Navigation – tracking – man over board button and drift alarms.

**B. Rephrase the following sentences:**

1- There are always fins around the cylinder of the motorcycle engine.

2- There must be a strong cable to bear its own weight firmly.

3- They produce warning sounds and don't allow the boat to lose its right track.

4- He has promised me of my involvement in the film-making.

**C. Correct the wrong information given in each sentence:**

1- Communication technologies in offices are used for sending and receiving e-mails more quickly – fax machine - internet.

2- Computers were first developed by mathematicians.

3-When someone falls into the sea, you hit a button which logs – tells the position and ensures that you don't lose track of where you were..

4- Accuracy is no longer the main selling point of any device but innovation – innovative ways of using technology.

**2- Structure and Grammar**

**A. Do as shown in brackets:-**

1- Sometimes

2- Their tendency

3- Have been sent

4- Music in your country is quite similar to music in my country.

5- Water should have been boiled.

6- But also she to like to travel to Asia.

7- To collect

8-I suppose it was inevitable that the silicon chip started a revolution.

9- There is a water jacket around this cylinder.

10- A. Gerard bought a fax machine.

### **III- Reading Comprehension**

**Answer the following questions:-**

1. From the sun.

2. Solar-powered vehicles have batteries which are charged by the sun's rays. Unfortunately, the batteries run out very quickly and it takes a long time to charge them again.

3. Local companies helped by giving them money and equipment.

**B) Choose the correct answer from a, b, c or d:**

4. b) 48 km.

5. c) relates to a particular place.

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

Writing is assessed by the examiner.