

**INTI**INTERNATIONAL COLLEGE PENANG (507232-U)
LAUREATE INTERNATIONAL UNIVERSITIESFINAL
Examination Paper

(COVER PAGE)

Session : April 2013

Programme : Diploma in Electrical & Electronic Engineering Programme

Course : **ENL1102 : Technical English**

Date of Examination : 29 July 2013

Time : 5p.m. – 7p.m. Reading Time : Nil

Duration : 2 Hours

Special Instructions :

This paper consists of **TWO (2)** sections. Answer **ALL** questions in **SECTION A** and any **ONE (1)** question in **SECTION B** and any **ONE (1)** question in **SECTION C** in the answer booklet provided.

Materials permitted : Nil

Materials provided : Nil

Examiner(s) : **Angeline Meow**

Moderator : **Subarshini**

This paper consists of 6 printed pages, including the cover page.

INTI INTERNATIONAL COLLEGE PENANG

**DIPLOMA IN ELECTRICAL AND ELECTRONIC ENGINEERING
DIPLOMA IN MICROELECTRICAL ENGINEERING
DIPLOMA IN TELECOMMUNICATION ENGINEERING
ENL 1102: TECHNICAL ENGLISH
FINAL EXAMINATION: APRIL 2013 SESSION**

Instructions: This paper consists of **SIX (6)** questions. Answer **ALL** questions from **SECTION A**, any **ONE (1)** question from **SECTION B** and any **ONE (1)** question from **SECTION C**. All answers are to be written in the answer booklet provided.

SECTION A: Answer **ALL** questions.

Question 1

(30 marks)

Construct **ONE (1)** thesis statement for each of the topics shown below.

1. Campus life
2. Android technology
3. Advertising
4. Hydroelectric power
5. Engineering
6. Digital age

Question 2

(30 marks)

Write an **essay of about 300-350 words** on any **ONE (1)** of the following topics. Construct your own thesis statement, topic sentences, supporting sentences, and concluding sentences.

- a) Is Moral Studies a necessity for all Engineering students? Give your reasons or causes.
- b) Is business or engineering skills more important for the growth of a nation? Compare or contrast between both.
- c) Illustrate a process of how to save or use less energy at your college.

SECTION B: Answer any **ONE (1)** of the following questions.

Question 3

(20 marks)

You saw an advertisement in The Star, 26 June 2013 on the latest iPhone 6G. You are very interested to purchase it but it will only be on sale this coming October 2013. Write **a letter of enquiry** (of about 250-350 words) to the address below to enquire further about this new phone.

Your letter should include the following:

- a) What other extra features does it have?
- b) What will the price be? Will there be special discounts? Will there be special promotional rate?
- c) Which outlets can it be purchased? Or can it be purchased online?

The recipient's address:

*Marketing Department
Pineapple Company Sdn Bhd
1-2-3 B Block C
Festival Garden
13000 Georgetown
Penang*

Question 4

(20 marks)

Your Director, Mr. Alan Yong has asked you to provide him with the latest information on the number of popular cars sold by your company for the year 2012. Study the table below and write an **email** (of about 250-200 words) in reply to Mr. Alan Yong's request.

MODEL	UNITS SOLD
Perodua Myvi	90,595
Proton Saga	71,688
Perodua Viva	67,977
Proton Persona	42,984
Toyota Vios	29,387
Honda City	19,722

Proton Exora	18,451
Toyota Hilux	14,572
Nissan Grand Livina	12,287
Toyota Avanza	11,468

SECTION C: Answer any **ONE (1)** of the following questions.

Question 5

(20 marks)

Fill in the blanks with the **correct transition signals** from the box below.

and	as	in addition	however
not only ___ but also		or	another
and	instead of	hence	

Looking ahead: engineering sector

“Without a doubt, the engineering sector has contributed tremendously to the growth and development of Malaysia. Dato’ Paduka Engr Hj Keizrul bin Abdullah, the President of the Institution of Engineers, Malaysia (IEM), speaks to Lee Lai Heng about the current trends and the future of this exciting sector.”

Take a look around. Everything around you, from houses, roads, cars, mobile phones, computers, to the chair you are sitting on, is a product of engineering. Engineering is the application of mathematics and science to create something of value from our natural resources.

The root word of engineering is the Latin ‘ingenium’ which means skill, ability, (1) _____ inborn talent. The English word ‘ingenuity’ (2) _____ comes from the same root word, and it means having the skill to invent things and to think of new ideas and ways to do things. Therefore, ‘we can say that engineers translate ideas, concepts, (3) _____ the needs of the society into reality,’ says Dato’ Paduka Engr Hj Keizrul bin Abdullah, the current president of the Institution of Engineers, Malaysia (IEM) (session 2008/2009).

(4) _____, engineering as a work area covers a wide scope and encompasses diverse branches such as civil and structural engineering, mechanical engineering, chemical engineering, electrical and electronics engineering, telecommunications engineering, aerospace engineering, environmental engineering, automotive engineering, software engineering, petroleum engineering, marine engineering, industrial engineering, biomedical engineering, mining and geological engineering, nuclear engineering, and other forms of engineering that the future will bring.

Current Trends

According to Dato' Paduka Keizrul, Malaysia is now experiencing a shortage of experienced engineers in certain areas, especially in niche fields such as tunnelling and deep foundation. This shortage can be attributed to the general declining interest in engineering, which seems to be a worldwide phenomenon. 'With this current shortage, there are good prospects for graduates (5) _____ here in Malaysia, _____ around the world, as there are more demands for those with qualifications in this field,' Dato' Paduka Keizrul says confidently.

(6) _____ reason for the shortage of engineers in Malaysia is many of our engineers opt to work overseas due to better remuneration. 'In Singapore, a fresh engineering graduate could be earning between S\$2,500 and S\$3,000. The starting pay for an engineering graduate in Australia is around A\$4,000. Contrast this with the salary of a fresh engineering graduate in Malaysia, which is between RM2,500 and RM3,000,' muses Dato' Paduka Keizrul.

To address the shortage of engineers in Malaysia, IEM is proposing to the government that a task force be formed to examine this issue. 'One of the root causes of the dwindling interest in engineering is the structure of the Malaysian education system,' Dato' Paduka Keizrul points out. 'In our education system, students are being "taught" rather than being taught to learn on their own – (7) _____ being inquisitive and curious, they are only memorising facts and figures. This stifles creativity and innovativeness, the vital qualities that make a good engineer,' he adds.

The Future of Engineering

The proposed IEM task force would also look into the existing curriculum of our education system. 'About half a million students enter schools each year. We have a lot of brilliant students who can make good engineers. (8) _____, we must start them young in order for students to be interested in science, generally, and in engineering, particularly,' emphasises Dato' Paduka Keizrul.

As there is currently a high demand for engineers, the employment prospect looks great for those who opt to study engineering. (9) _____, more attractive perks and benefits would be introduced to attract graduates into working in this sector. 'This is so that parents would be encouraged to "influence" their children into taking up engineering studies, hence adding to the number of engineers in the country,' Dato' Paduka Keizrul quips.

In a Nutshell

To be an engineer, the foremost criteria is being creative and able to turn ideas into reality. You should be able to understand the materials and resources, their physical attributes, and their strengths and weaknesses, in order to be able to make improvements to existing products or to create new products. Apart from that, you should be analytical and logical, able to solve problems, and have good communication skills. Academically, you should be well-versed in mathematics, physics, and chemistry.

A career in engineering is a rewarding one, (10) _____ an engineer is able to see the output of his ideas and efforts being implemented. The knowledge that the output helps in making the quality of life better for a lot of people is another driving force for engineers to continue to persevere in their field. 'I am sure everyone who goes into engineering will find this kind of job satisfaction,' concludes Dato' Paduka Keizrul with a broad smile.

Question 6**(20 marks)**

Fill in the blanks with the correct form of the verbs in brackets.

Are hybrid cars slower than regular cars

by John Fuller (*Source: How Stuff Works*)

Part of America's love affair with cars is the desire for speed. Sure, we (1) _____ (attach) to automobiles for several other reasons -- they get us comfortably from one point to the next, and we are even willing to sit through grueling traffic jams in them just to (2) _____ (get) to work or to the grocery store. But the rumble of the engine, the whine of the gears shifting upwards and the wind flowing through an open window is a common, iconic image. It's probably no coincidence that lots of American road movies include montages that attempt to convey that sort of feeling.

The (3) _____ (rise) popularity of hybrid cars within the auto industry, however, is changing that familiar perception. For one, most fuel-efficient vehicles don't necessarily rumble. In fact, most employ a function that (4) _____ (allow) the gasoline engine to stop running while sitting in traffic, coasting or even when the car is driving at lower speeds. Instead, a hybrid vehicle uses a quieter electric motor to (5) _____ (conserve) fuel and produce fewer emissions.

But despite being known for having good fuel efficiency and promoting eco-friendly driving, some (6) _____ (criticize) hybrid vehicles for a variety of reasons. Some have questioned, for instance, the reliability of hybrid battery packs, (7) _____ (claim) that they tend to be faulty and that they're expensive to replace. This is largely untrue, and nearly every car company (8) _____ (produce) a hybrid vehicle guarantees their battery pack for the life of the car.

Other critics, at least those that have grown accustomed to faster speeds (9) _____ (associate) with modern gasoline-powered cars, have noted that hybrid cars are typically slower than regular automobiles. The claim is that by focusing on fuel-efficiency and lower emissions, hybrid cars (10) _____ (sacrifice) higher speeds and more power, slowing down their performance. Because this doesn't gel with the typical image of the fast American car, some drivers are a little turned off by this.

So, are hybrid cars really slower than regular cars? Why is this? And is that really the point for someone concerned about green driving?

--THE END--

(ENL1102/F/Apr2013/Angeline Meow/27/03/13)