

FINAL
Examination Paper

(COVER PAGE)

Session : April 2018

Programme : Diploma in Mechanical Engineering (DMEN)
Diploma in Electrical and Electronic Engineering (DEEI)

Course : ENL1102 : Technical English

Date of Examination : July 30, 2018 (Monday)

Time : 8:00 am- 10:00 am Reading Time: Nil

Duration : 2 Hours

Special Instructions :

This paper consists of SIX (6) questions. Answer any FOUR (4) questions in the answer booklet provided. All questions carry equal marks.

Materials permitted : Nil

Materials provided : Nil

Examiner (s) : Dolly Singh & Archanaa Maniappen

Moderator : Mr Muhamad Izzat Bin Rahim

This paper consists of 9 printed pages, including the cover page.

DIPLOMA IN MECHANICAL ENGINEERING (DMEN)
 DIPLOMA IN ELECTRICAL AND ELECTRONIC ENGINEERING (DEEI)
 ENL1102: TECHNICAL ENGLISH
 FINAL EXAMINATION: APRIL 2018 SESSION

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Question 1 (25 marks)

Part A

Reading & Comprehension (15 marks)

Why is Technology So Important Today?

Have you asked yourself why technology is so important today? Just look around and you'll know why. Literally, at every instant of time, you are surrounded by technology. Whether you are working or resting, you are always using technology. It is used everywhere and all the time. Its use has made life easy. We need technology. It's important. You ask why?

Places far away have come closer, thanks to technology. The pace of life has increased, thanks to technology. Communication is quick, travel is fast, movement is easy, action is quick, interaction has sped up and so has life. Things that once took hours to complete, can be done in seconds. **The world is smaller** and life is fast. Courtesy - technology.

The discovery of electricity drove all the darkness away and the world lit up. If not for the use of technology, we wouldn't have been able to produce electric power or *harness* it. Today, it can be generated through various means because of technology. It has been channeled to every small household in the farthest of world's corners, thanks to technology. What made it possible to use renewable sources like hydropower or solar and wind energy to generate electricity? You have it, technology!

How would our basic needs be met so easily if not for technology? Man could meet his needs even before the birth of technology. But it was so difficult then and so rudimentary. Look at today's food - fresh, *preserved* or processed, food of any type is available at your doorstep just anytime. Clothing? Gosh, there's so much variety and much more comfort with different clothes for different occasions and seasons. Where does technology come into picture? Everywhere. From food to fashion, technology has a role to play. How else would so much of all this be produced? Look at today's shelters - shelters? Tall buildings, big bungalows, luxurious apartments - how would they be built if not for technology!

How does water reach homes? With the help of robust water storage and *transmission* systems. How do homes get the warmth and cold as and when they need? Due to heating and air conditioning systems. How can food be preserved without getting spoiled? Because of refrigeration. How can civil structures be built under water? How can skyscrapers stand so tall? It's owing to advancements in civil engineering and architecture. Earthquake-*resistant* and fireproof structures we see today are also the gift of developments in technology. In short, we owe our luxurious lives to technology.

Businesses, small and big, need technology to thrive. They are growing and expanding across countries owing to technological advancements. It is technology that gives organizations the strength to spread their wings. If not for technology, how would *complex* industrial processes be carried out? If not for machines, how would large-scale production of goods be possible? If not for computers, how would the software industry have grown? Growing businesses create employment opportunities for people and technology plays a big role in business growth. That's how important technology is.

Technology has changed the way people communicate. Communication systems have *evolved* from pigeons carrying messages to emails and instant messages that travel long distances in seconds. Cellular technology and satellite communication have increased communication speeds and made 'connecting' easier. The Internet has enabled easy exchange of information over long distances. Just a few clicks of your computer mouse can take you anywhere on the Internet. You enter an all, new, world without even realizing it!

Satellite and radio communication have changed the entertainment industry. Channels from all over the world are now available on your TV set, thanks to technology. Television shows and films can reach the *masses* within minutes after their release. Radio communication has made it possible to broadcast programs to the remotest of locations.

The role of computers and Internet in education cannot be ignored. The use of computers in teaching has made learning more interesting. Computers enable better storage and presentation of information, thus making the process of teaching easier and more effective. Educational CDs are available everywhere. Lectures or lessons can be uploaded on websites, as PDFs or even as videos. This has made information more easily accessible and provides for better ways of knowledge sharing. Online degrees and training courses have led to spread of education. Today, people can continue learning even while managing their jobs, because online education gives them the flexibility to do so. And all the information in the world is so widely available, thanks to the world wide web.

Technology is as important in the healthcare industry as in any other. Right from easy communication between healthcare professionals and patients to computer-assisted medical procedures, it's technology everywhere. In the working of patient-monitoring equipment and surgical instruments, there's technology. In various *diagnostic* procedures from scans to complex therapies, technology has a vital role to play. Many medical procedures are mechanized. Even surgeries are simulated on and assisted by machines.

Technological development has never stopped. Nanotechnology has gone on to understand things at their nano level. Space exploration has gone on to explore extra-terrestrial life. Genetic research has revealed how various *traits* or even hereditary diseases are transferred across generations. Processes like cloning and genetic engineering are attempting to alter traits in individuals. Artificial intelligence can make machines learn, thus developing intelligence in them. Fourth generation technologies in mobile communication have achieved amazing speeds in voice and video communication on cellular networks. Things we would never have imagined have come into reality due to application of technology.

At the heart of every piece of technology is *automation*. Technology automates the most complex of processes, be it in communication, education, medicine or any other industry. With the application of technology, critical and time-consuming processes can be executed with ease and in less time. Laborious and repetitive tasks are best done by machines (without getting bored!). People do not have to slog as much as they would have had to, if not for technology. With automation come efficiency and speed. They save human effort and time to a great extent and make life easy and comfortable. Nothing else has changed living the way technology has. And that's exactly why technology is so important today and will always be.

By Manali Oak

Source: <http://www.buzzle.com/articles/why-is-technology-so-important-today.html>

Section A

The words below (a – j) have been extracted from the passage above. Match the words (a – j) to the most suitable meaning.

[5 marks – 0.5 marks each]

- | | | |
|-----------------|-----------|--|
| 1. harness | ___ a ___ | the process of sending out signals |
| 2. preserved | ___ b ___ | not easily damaged or affected by something |
| 3. transmission | ___ c ___ | undergone gradual change or development |
| 4. resistant | ___ d ___ | so save something from being harmed or destroyed |
| 5. complex | ___ e ___ | ordinary people or the general population |
| 6. evolved | ___ f ___ | quality or characteristic |
| 7. masses | ___ g ___ | the use of machines instead of humans |
| 8. diagnostic | ___ h ___ | to control and use |
| 9. traits | ___ i ___ | examining to determine what's wrong |
| 10. automation | ___ j ___ | difficult to understand or deal with |

Section B

Answer the questions below. Provide suitable explanation / examples to support your answers.

[10 marks – 2 marks each]

1. What do you think the writer is trying to say by using the expression 'the world is smaller'?
2. Name the renewable energies stated in the passage. What does the writer mean by renewable energy?
3. Why do we owe our luxurious lives to technology? Provide an example to support your answer.
4. How has technology changed communication and interaction trends and, what difference has this change made in human development?
5. The writer has described many futuristic technologies, for instance, genetic research, nano-technology and artificial intelligence. Given a chance, what would you pursue. And why?

Part B (10 marks)

Define the following terms in not more than 45 words. Use full sentences.

1. Fiber optic
2. Stethoscope

Question 2 (25 marks)**Part A (15 marks)**

You and your family had dinner at your favourite restaurant a few nights ago. However, the service that night was terrible and the food served was also not up to the usual standard. Write a **complaint letter** to Mr Roy, the manager of the restaurant, to highlight these problems. Provide other relevant details. Ask the manager to do something about the situation.

The restaurant's address:

Kok Thai
G10-6, Arnold Street,
43200, Kuala Lumpur,
Malaysia

Part B (10 marks)

Identify the parts of speech of the bolded word in each of the following sentences.

1. The usher **closed** the door.
2. Mary spoke **softly**, but John heard every word like a shout.
3. **They** met at the field house yesterday.
4. I have **good** news for you.
5. The cat knocked a vase **off** the shelf.
6. I study a **course** called Practical Business.
7. **Although** Sheena was ill, she went to school.
8. The students make a connection **between** the books and their own lives.
9. There are a lot of international **students** in the class this year.
10. The children wear **traditional** clothes.

Question 3 (25 marks)**Part A: (15 marks)**

In a paragraph of 150-200 words discuss *how limiting the number of cars entering the city has many benefits*. Your paragraph should have clear topic sentence, supporting details and a conclusion.

PART B: (10 marks)

Some of the sentences contain mistakes. Underline the mistakes and write the correct answer in the booklet provided.

1. The BBC makes its first TV programmes in 1936.
2. The people who pursue a PhD degree is few.
3. The focus of the interviews were nine previously selected participants.
4. The committee members or the student writes everyday.
5. The information obtained from the business owners were relevant to include in the study.
6. All of the chicken are gone. They didn't save any for us.
7. You should decide which one of the three answers A, B, or C best answer your question.
8. The girl who won the two gold medals is my best friend.
9. The boss as well as his colleagues have bought a new phone.
10. Neither the lion tamer nor the clowns is signing any autographs tonight.

Question 4 (25 marks)**Part A (15 marks)**

Fill in the blanks with the correct tense form of the verbs provided.

1. After Shawn _____ his degree, he intends to work in an office. (complete)
2. Sam looked down to discover a snake at her feet. When she saw it she _____. (scream)
3. I borrowed four books on engineering the last time I _____ to the library. (go)
4. By the time I go to bed tonight, I _____ my work for the day. (finish) 5
5. My grandfather _____ in an airplane before, so this is his first time. (never – fly)
6. I _____ in this city since I was a small child. (live)
7. While Vincent _____ TV last night a grey mouse ran across the room. (watch)
8. Cindy isn't here yet. I _____ since noon but there is no sign of her. (wait)
9. Our father was in the air-force, so by the time my brother finally graduated from high school, he _____ seven different schools. (attend)
10. Right now, we _____ a heat wave. It's been so hot for almost a week. (experience)
11. Simon _____ his homework when his mum returned from work. (finish)
12. I _____ house work on Sundays normally. (not do)
13. But tomorrow I _____ my room, because my parents are coming. (tidy)
14. Since I began acting, I _____ in two plays, a television commercial. (perform)
15. Excuse me, I _____ for a hotel. Is there one near here? (look)

Part B (10 marks)

Rewrite the following sentences into the passive or active forms as instructed.

(Accept other appropriate worded sentences)

A= active; P= passive

(10 marks)

1. A worker peels the thin layers of wood with a huge lathe. (*P*)
2. They pour the metal into the molds while it is still molten. (*P*)
3. The screws are being tightened by the mechanic. (*A*)
4. You can always replace the wire with the modem. (*P*)
5. We are going to be guided by the guide. (*A*)
6. James will sort out everything before the end of the year. (*P*)
7. The meeting was cancelled by the directors. (*A*)
8. The flight will be cancelled if the weather doesn't improve. (*A*)
9. The judge signed the bills into law at noon. (*P*)
10. The delegation will meet the visitors at the airport. (*P*)

Question 5 (25 marks)

Write an essay of about **350 words** on **ONE (1)** of the following topics

1. Based on the quote provided, in your opinion, what role could we humans play at an individual, societal, national or global level in order to rejuvenate a dying earth? Provide logical / practical ideas - justify and explain your points.



2. Compare or contrast between Traditional learning and E learning.
3. It is becoming increasingly popular to have a year off between finishing school and going to university. What are the advantages and disadvantages of this?

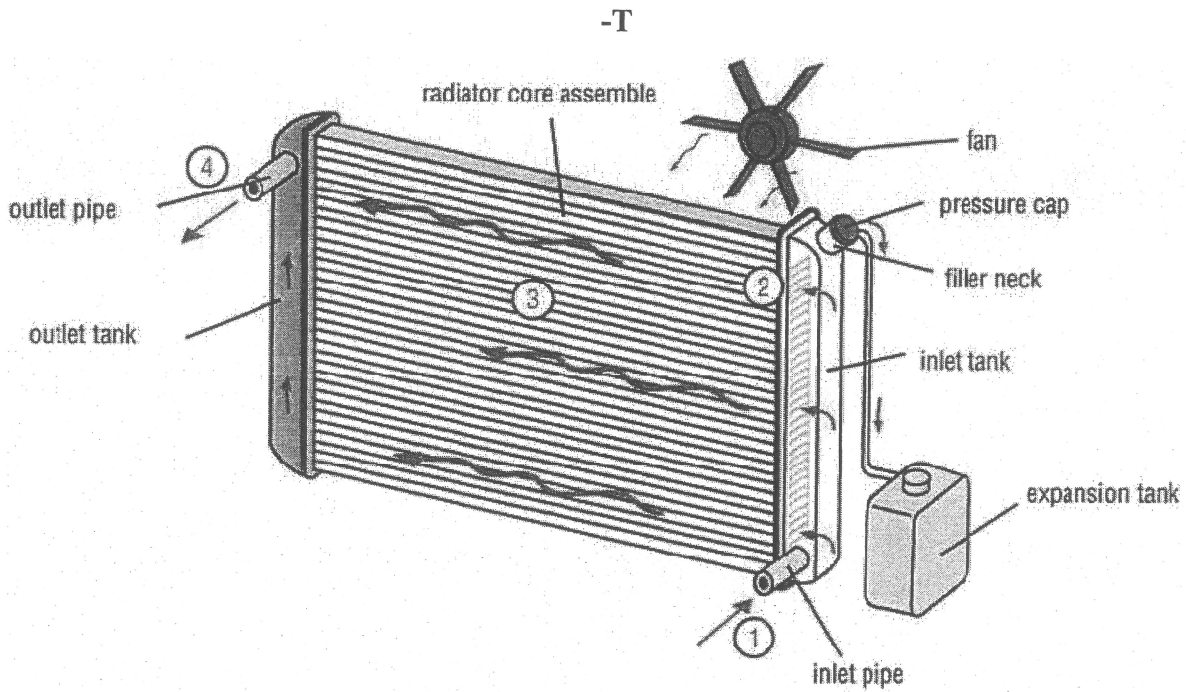
Question 6 (25 marks)

Part A: Rewrite each pair of simple sentences into either a simple, compound or complex sentence as instructed in the bracket.

1. Jenny keeps her asking to be quiet. She doesn't listen to her. (*Compound*)
2. Tim must run fast, otherwise he cannot catch the school bus. (*Simple*)
3. Sharon must return the money. She will be punished. (*Compound*)
4. I need to go to the rest house. I am feeling too sick to drive. (*Complex*)
5. Darrel went for swimming. He had a lot of work to do. (*Complex*)
6. A man who is dead has no worries. (*Simple*)
7. I didn't do my homework. My parents punished me. (*Compound*)
8. My dad ate country ham. I ate the country steak. (*Complex*)
9. It was Sunday. Harry went to the library. (*Complex*)
10. My parents went to the church. I went to watch a movie. (*Compound*)

Part B (15 marks)

In about **150-200 words** write the technical description of the radiator as shown in the picture below, provide a definition for the object, an overview of the whole description of the parts, and a description of the mechanism in use



-THE END-

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