

**FINAL**  
Examination Paper

(COVER PAGE)

Session : April 2017

Programme : Diploma In Mechanical Engineering (DMEN)  
Diploma In Electrical And Electronic Engineering (DEEI)

Course : ENLI102 : Technical English

Date of Examination : August 5, 2017 (Saturday)

Time : 11:00 am – 1:00 pm 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) : Ms Dolly Singh, Ms Charlotte Nalina Jotty

Moderator : Ms Leela Menon

*This paper consists of 5 printed pages, including the cover page.*

DIPLOMA IN MECHANICAL ENGINEERING PROGRAMME (DMEN)  
DIPLOMA IN ELECTRICAL AND ELECTRONIC ENGINEERING PROGRAMME (DEED)  
ENL 1102: TECHNICAL ENGLISH  
FINAL EXAMINATION: APRIL 2017 SESSION

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

**Question 1 (25 marks)**

**Part A (10 marks)**

Fill in the blanks with the correct form of the words given in brackets.

For many years, children have taken comfort in the 1) \_\_\_\_\_ (believe) that even Albert Einstein (1879-1955) was a 2) \_\_\_\_\_ (fail) at school. But the school records of the German-born 3) \_\_\_\_\_ (physics) who devised the theory of 4) \_\_\_\_\_ (relative) shows that in fact Einstein was 5) \_\_\_\_\_ (exception) gifted. He excelled 6) \_\_\_\_\_ (particular) in physics, mathematics and music.

The misunderstanding may have 7) \_\_\_\_\_ (to rise) because during Einstein's last year at school in Aargau, Switzerland, in 1896, the school's system of marking was revised. Grade 6, which had been the lowest mark, became the highest grade 1, which had been the highest, became the lowest. To anyone who did not know of the change, it could have appeared that Einstein's mark had 8) \_\_\_\_\_ (plummet).

Einstein did fail the 9) \_\_\_\_\_ (enter) examinations for the Federal Technical Institute in Zurich, but this may have been because of his 10) \_\_\_\_\_ (weak) in one area of grade: French. It may have been because he took the examination at the age of 16-21 years younger than normal. Instead, Einstein was sent to Aargau and he went on to the Zurich Institute two years later.

**Part B (3 X 5marks = 15marks)**

Define any **THREE (3)** of the following terms in not more than 30 words. Use full sentences.

1. Radiator
2. Cooling coil
3. Piston
4. Pen drive
5. Laser

**Question 2 (25 marks)****Part A (20 marks)**

Complete the paragraphs with the suitable form of the verbs in brackets.

**Radioactive waves**

**X-rays-** In 1895, Wilhelm Roentgen a) \_\_\_\_\_ (discover) x-rays. He b) \_\_\_\_\_ (call) them x-rays because he c) \_\_\_\_\_ (not, know) what they were in medicine. The science of x-rays d) \_\_\_\_\_ (call) roentgenology. X-rays wavelengths e) \_\_\_\_\_ (be) shorter than ultra violet rays; they f) \_\_\_\_\_ (be) of a higher frequency, and they are beyond the ultra-violet on the electromagnetic spectrum. Many different medical instruments g) \_\_\_\_\_ (use) x-rays to allow doctors to “see” inside the body. These x-ray machines h) \_\_\_\_\_ (be) very useful but doctors and patients i) \_\_\_\_\_ (has to, be) careful with x-rays. They j) \_\_\_\_\_ (can, also harm) the body. X-rays hurt living cells.

**Gamma rays** – Gamma rays are more powerful than x-rays. They have more energy. They are shorter in length and k) \_\_\_\_\_ (be) of a higher frequency. They l) \_\_\_\_\_ (come) from radioactive material such as uranium and radium. When radioactive atoms decay, the nuclei m) \_\_\_\_\_ (break) into pieces and lose energy. The energy n) \_\_\_\_\_ (leave) the nucleus in the form of gamma ray photos. These photos o) \_\_\_\_\_ (kill) and destroy all living cells. They can destroy, but they p) \_\_\_\_\_ (be) also useful. Doctors use radioactive radium to q) \_\_\_\_\_ (treat) diseases such as cancer. Gamma rays also r) \_\_\_\_\_ (kill) the cancer cells. Gamma rays also s) \_\_\_\_\_ (make) the faces and watches and clocks t) \_\_\_\_\_ (glow) in the dark.

**Part B (5 marks)**

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

1. According to the police, the killer of the boys in both cities are probably between the ages of 40 and 50.
2. My sister, along with her husband and my parents, is driving to a wedding this weekend.
3. Neither of the two politicians expects to lose the race.
4. Sara is the only one of the students who always answer correctly.
5. Neither her administrative assistants nor Senator Smith return phone calls.

**Question 3 (25 marks)**

Write an essay of about **250 words** on **ONE (1)** of the following topics

1. Compare and contrast high school and college.
2. Advantages and disadvantages of online learning in colleges.
3. With animal abuse cases on the rise, should there be harsher penalties for offenders or should offenders be taken for counselling instead? Give reasons to support your reasons.

**Question 4 (25 marks)**

**Part A (15 marks)**

Write a paragraph on *The importance of technology in 21<sup>st</sup> century* in no more than **120** words. Your paragraph should have clear topic sentence, supporting details and a conclusion.

**Part B (10 marks)**

Change the following sentences into passive sentences.

1. We can define a robot as an “intelligent” machine.
2. Robots can copy the functioning of a human being in one way or another.
3. In hospitals, people have programed ‘nursing’ robots to lift patients.
4. In the future, however, people will use artificial intelligence to create robots that are more humanlike.
5. Nowadays, people can design robots to do many jobs that would be boring or dangerous to human.
6. The actors had performed the play by Shakespeare
7. Chris Wedge and William Joyce created the story of Robot.
8. During Rodney's adolescence, he invented a gadget called the Wonderbot.
9. The employees blamed the management for nonpayment of salary in time.
10. The CEO will carry out inspection next time.

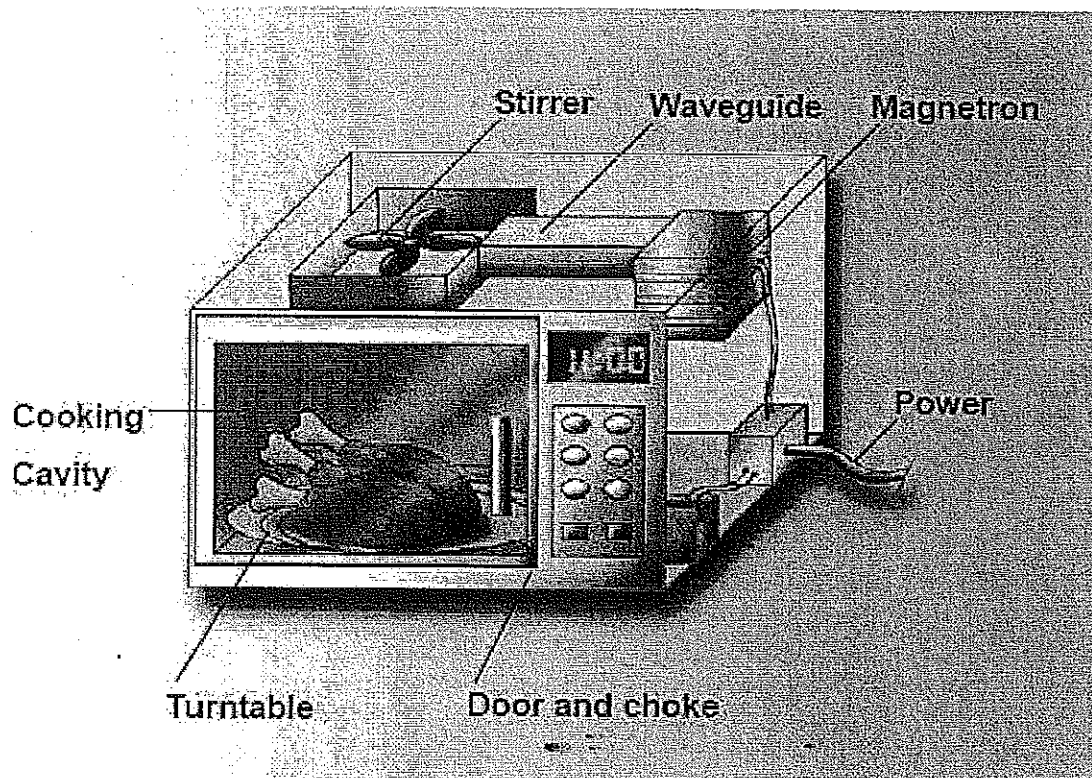
**Question 5 (25 marks)**

You are an Administrative Assistant at Excel College. On 15 March 2015, you ordered 30 sets of Mathematic books from WH Smiths Bookstore (Order No.A8758). You paid RM350 and were promised delivery within 3 days. As promised, the books were delivered. You checked the box but found that they had delivered English books. You have decided to return the box of books.

Write a complaint letter to WH Smiths Bookstore. In your letter, request for a replacement order with the correct books to be sent by 30 March 2015.

**Question 6 (25 marks)**

In about 150-200 words write the technical description of a microwave 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-**

*ENL1102 (F)/April 2017/formatted*

