

ACADEMIC YEAR 2023 – 2024

Program	Year	Semester	Paper
LTM/PE/DO/ME	1	1	MAIN
MODULE NAME:	TRANSPORT ENGLISH-I-I/TECHNICAL ENGLISH-I/ENGLISH-I		
MODULE CODE:	PENG-I-I/TENG-I/DENG-I/MENG-I	EXAM DATE:	02/01/2024
TEACHER'S NAME:	Salwa Al-Farsi	DURATION:	2 hrs.

Questions to be answered on:	Allowed requirements	Number of pages
Space provided on the question paper	Pen	(Incl. Cover Page): 9

Points of Attention:

- For each question, the maximum earned points are mentioned between brackets at the end of each question.
- Write very clearly! Answers that are not readable are not marked and don't get points!
- Make sure your answers are written to the point.
- All answers should be written **in English**.
- Write all the answers **in blue or black pen only**.
- When finished, submit the question paper together with the answer scripts and the signed cover page to the invigilator.
- Any cheating/copying may result in an instant failing of the examination.

FINAL MARKS

STUDENT NAME:		40
STUDENT ID:		10

Number of answer scripts:

Invigilator:

Student's signature:

Time of receipt:

READING

[15 Marks]

Read the article and answer the questions that follow.

Historic Solar Flight Shows Promise

Completing the first trip around the world exclusively on solar power, the experimental *Solar Impulse* has shown what may be possible in energy and flight. When it concluded its journey in the summer of 2016, the *Solar Impulse* became the first aircraft to circumnavigate the globe without a drop of liquid fuel. The flight took seventeen months and included stops in seventeen cities. Sun power propelled the pilots across approximately forty-three thousand kilometres of sky, and their landing in Abu Dhabi happened one day after the birthday of Amelia Earhart, who was the first woman to fly alone across the Atlantic in 1932.

Although a significant moment in the history of flight, *Solar Impulse* was always more about energy than aviation. Outlining his vision for the project more than twelve years ago, Bertrand Piccard, one of the pilots on the *Solar Impulse*, noted that clean energy wasn't being promoted properly. *Solar Impulse*, then, is an airborne argument for solar technologies. According to the supporters of the project to fly on solar energy alone, it will cut the world's energy consumption in half and protect a warming planet.

Of course, impressive though the flight was, solar-powered commercial air travel at the capacity and speeds the general public would expect isn't yet possible, and probably won't be in most of our lifetimes. *Solar Impulse* can only carry one person at a time – the pilot – and travels at about the speed of a car, seventy-five kilometres per hour, so it isn't likely to appeal to people keen to fly to the beach for their holidays.

A lot of what the achievement of the *Solar Impulse* is demonstrating is probably going to be relevant to earthbound applications before it becomes important to flight. For example, the plane's lightweight materials and other components could be used on the road. Its super-efficient engine ran

on electricity generated from 17,248 solar cells. These were special, energy-dense batteries which, uniquely, stored sun power so the plane could fly at night. It proved that a 24-hour electrical system, powered exclusively by renewable energy, is possible. The project helped develop solar cells that are nearly fifty per cent more efficient than regular ones.

A major supporter of the journey was Masdar, the sustainability testing ground located in Abu Dhabi, Solar Impulse's beginning and ending destination. 'In Abu Dhabi, you can feel the excitement surrounding Solar Impulse,' says Masdar CEO Mohamed Jameel Al Ramahi. 'Being the host city is a source of tremendous national pride.' In particular, he says, the plane's 118-hour flight over the Pacific Ocean 'shattered the myth that solar energy captured by PV panels can't be stored and utilized at night.' Here again is where *Solar Impulse* stands for advances that will more likely appear first on the ground, as power plants look to introduce more renewable energy while balancing the intermittent nature of the sun and wind.

While much of the technology aboard the *Solar Impulse* may be better employed on the ground for now, there is one area that seriously interests the aviation industry. Dan Rutherford, program director for marine and aviation technology at the International Council on Clean Transportation, notes that *Solar Impulse* is not just about the solar power. It's also about using electricity instead of combustion and hydraulics to power flight. 'We've already seen a movement toward more electric aircraft,' Rutherford says, pointing to the Boeing Dreamliner, which has batteries that power its auxiliary system and computers. Between the amazing advancements on the *Solar Impulse* and the most advanced commercial planes there are similarities. Although it may well be a while before we get on board a plane powered by the sun, it isn't going to be that long before trans-Pacific planes are exclusively using electricity to fly (Dummett, et al., 2019).

Question 1. Circle the correct answer.

(4 marks)

1. What was the significant achievement of the *Solar Impulse* flight?

- A. It set a new speed record for aircraft.
- B. It completed the first trip around the world using solar power.
- C. It carried a large number of passengers across the globe.
- D. It traveled faster than the speed of sound.

2. How long did it take for the *Solar Impulse* to complete its journey?

- A. 1932
- B. 17 cities
- C. more than a year
- D. 2016

3. According to Bertrand Piccard, what was the primary purpose of the *Solar Impulse* project?

- A. Advancing aviation technology
- B. Promoting clean energy
- C. Breaking speed records
- D. Reducing travel time

4. What role did Masdar play in supporting the *Solar Impulse* project?

- A. They manufactured the solar cells for the plane.
- B. They provided the pilot for the journey.
- C. They designed the lightweight materials for the plane.
- D. They hosted the beginning and ending of the journey.

Question 2. Read the statements. Write T if the statement is *True* or F if the statement is *False*.
(4 marks)

Statement	T / F
1. <i>Solar Impulse</i> can carry a large number of passengers at once.	_____
2. <i>Solar Impulse's</i> flight over the Pacific Ocean demonstrated that solar energy can be stored and used at night.	_____
3. The <i>Solar Impulse</i> project helped develop solar cells that are more effective than regular ones.	_____
4. The technology aboard the <i>Solar Impulse</i> is better suited for ground applications at the moment.	_____

Question 3. Complete the summary below using words from the text. Write *NO MORE THAN TWO WORDS AND/OR A NUMBER*.
(4 marks)

1. The *Solar Impulse's* journey, which included stops in _____ cities, spanned a period of 17 months.
2. *Solar Impulse* used special, energy-dense batteries that stored _____ to enable flying at night.
3. One area that interests the aviation industry in *Solar Impulse* is using _____ to power flight instead of combustion and hydraulics.
4. Dan Rutherford points to the _____ as an example of a commercial plane moving towards more electric aircraft.

Question 4. Find a word in the text that defines the following.
(3 marks)

Definition	Paragraph	Word
1. the earth (n.)	Paragraph 1	_____
2. deserving attention or admiration (adj.)	Paragraph 3	_____
3. a feeling of wanting to learn more about something or to be involved in something (v.)	Paragraph 6	_____

(Encyclopedia Britannica, Inc., 2023)

LANGUAGE

[15 Marks]

Question 1. Circle the correct answer. (5 marks)

1. Which word describes a situation where the streets are heavily crowded with vehicles?
 A. Congestion B. Thrive C. Residential D. Busker
2. What is the term for the type of material often used for crafting and packaging?
 A. Brick B. Concrete C. Cardboard D. Arty
3. A _____ is a person who performs on the street for money.
 A. bond B. concert C. residential D. busker
4. What word is used to describe a state of widespread illness affecting a large population?
 A. Congestion B. Thrive C. Epidemic D. Poverty
5. If an area is primarily meant for people to live in, it is referred to as _____.
 A. congestion B. arty C. residential D. considerate
6. If someone is said to have a strong "bond" with another person, what does it mean?
 A. They are living in a residential area. B. They have a close relationship. C. They are considered considerate. D. They are starving.
7. The company's profits continue to _____ year after year, showing their strong growth.
 A. mutual B. thrive C. residential D. busker
8. He is such a _____ person, always thinking of others and their feelings.
 A. arty B. shy C. considerate D. outgoing
9. They have a _____ respect for each other's opinions, even when they disagree.
 A. mutual B. arty C. passing D. odd
10. She's not my close friend, just a _____. We've met a couple of times at social events.
 A. odd couple B. passing acquaintance C. mutual D. busker

Question 2. Complete the sentences with the correct form of the verbs in brackets. (5 marks)

1. The gardener _____ (plant) new flowers in the garden every spring.
2. We _____ (watch) a movie tonight.
3. Khalid _____ (have) a remarkable sense of direction and can navigate any city without a map.
4. They _____ (play) tennis the day before yesterday.
5. The little kid _____ (sleep) when the storm started.
6. I really love _____ (swim) in the ocean.
7. They decided _____ (go) to the new restaurant for dinner.
8. We _____ (not see) that movie yet.
9. _____ you ever _____ (go) to the US before?
10. We _____ (not study) for the test yesterday.

Question 3. Circle the correct answer. (2 marks)

Question 4. Write a meaningful sentence using the words given below.

(0.5 marks for grammar accuracy & 0.5 marks for meaning – 3 marks)

1. dependable (adj.)

2. flatmate (n.)

3. mass-produce (v.)

WRITING

[10 Marks]

Question 1. Circle the correct answer.

1. What is the primary purpose of paraphrasing in a research essay?

- A. To make the essay longer
- B. To restate the original text word-for-word
- C. To express the original ideas in your own words while retaining the meaning

2. Summarizing involves _____.

- A. expanding on the original text
- B. shortening and condensing the main ideas of the original text
- C. repeating the original text word for word

3. What does an in-text citation do in a research essay?

- A. Provides additional information
- B. Credits the original source and allows readers to locate it in the reference list
- C. Adds length to the essay

4. When should you use an in-text citation?

- A. Only for direct quotations
- B. When you mention or paraphrase someone else's ideas or work
- C. Only in the introduction and conclusion

5. What is the primary purpose of an introduction in a research essay?

- A. To summarize the main points
- B. To conclude the essay
- C. To provide background information and introduce the topic

6. Which of the following is NOT a recommended strategy for writing an effective conclusion?

- A. Introduce new ideas or arguments
- B. Summarize the main points
- C. Restate the thesis statement

7. Coherence in an essay means _____.

- A. repeating the same ideas multiple times
- B. making sure all ideas are logically connected and flow smoothly
- C. adding random information to the essay

8. Which of the following is the correct way to format an in-text citation for a book by Ali Al-Qasmi published in 2020?

- A. (Ali, 2020)
- B. (2020, Al-Qasmi)
- C. (Al-Qasmi, 2020)

9. What is the purpose of a transition sentence or phrase?

- A. To confuse the reader
- B. To provide extra information
- C. To connect ideas and paragraphs smoothly

10. Which of the following is a useful transitional phrase for introducing an additional idea?

- A. In conclusion
- B. Furthermore
- C. Firstly

References:

Dummett, P., et al. (2019). *Life: Student's Book: Upper Intermediate*. 2nd ed. National Geographic Learning.

Encyclopedia Britannica, Inc., (2023). The Britannica Dictionary. [Online]. [Viewed 07 November 2023]. Available at: <https://www.britannica.com/dictionary>.

MLO & Bloom's Level of Complexity

Q #	MLO Addressed	Complexity Level	Mark	Remark
Reading Question 1	MLO 2 & 3	Understanding/Analysing	4	
Reading Question 2	MLO 2 & 3	Understanding/Analysing	4	
Reading Question 3	MLO 2 & 3	Understanding/Analysing	4	
Reading Question 4	MLO 2 & 3	Understanding/Analysing	3	
Language Question 1	MLO 1 & 2	Remembering/Understanding	5	
Language Question 2	MLO 1 & 2	Remembering/Understanding /Application	5	
Language Question 3	MLO 1 & 2	Remembering/Understanding /Application	2	
Language Question 4	MLO 1 & 2	Understanding /Application	3	
Writing Question 1	MLO 1	Understanding/Application	10	