

Eastern University, Sri Lanka

Faculty of Science

First Year Second Semester Examination in Science 2021/2022 – Sept/ Oct -2024

ENG 100 - Proficiency in English Level 1

Time: 02 hours

Index No:

Instructions to the candidates:

1. Write your index number clearly on the space given.
2. Answer all the questions on this paper itself.
3. Answers written in pencil will not be accepted.

For the Examiner's use only.

Question Number	Maximum marks	Marks obtained
01	10	
02	15	
03	25	
04	25	
05	25	
Total	100	

Name of the First Examiner:Signature:

Name of the Second Examiner:Signature:

Q1. Reorder the following sentences which describe the recycling process of plastic bottles and write the number of the sentence in the correct order. (10 Marks)

1. The pellets are used to make new items.
2. The pieces are turned into pellets.
3. The bottles are picked up.
4. They are taken to the Recycling plant.
5. The bottles are discarded.
6. They are sent to another machine.
7. The bottles are washed.
8. The shredded pieces go into the extruder.
9. They are shredded into small pieces.
10. The new products are sent to the company.

I. Write full answers

a) What is nanotechnology primarily concerned with?

.....
.....
.....

b) How do the Nano scale materials differ from the others?

.....
.....
.....

c) Mention one of the key features of Nanotechnology.

.....
.....
.....

d) What is the breakthrough made by Nanotechnology in the field of Medicine?

.....
.....
.....



II. True or False statements

- a) Nanotechnology is limited to the field of physics only. (.....)
- b) Nano scale materials cannot be engineered to possess unique properties. (.....)
- c) The manipulation of nanoparticles poses risks related to pollution. (.....)
- d) Electronic devices, such as transistors and memory chips were invented with the advancement of Nanotechnology. (.....)

III. Matching Headings

Match the following headings with the corresponding paragraphs and write the paragraph number against each heading.

- a) **Nanotechnology Applications in Electronics** (Para No:)
- b) **Interdisciplinary Nature of Nanotechnology** (Para No:)
- c) **Nanotechnology in Medicine** (Para No:)

V. Complete the summary using information from the paragraph:

Nanotechnology presents both immense potential and (1)..... regard safety, ethics, and environmental impact. The manipulation of nanoparticles (2)..... risks such as toxicity and environmental (3)..... He responsible development and regulation are essential to ensure the (4)..... and 5)..... integration of nanotechnology into society.

Q4. Complete the following table with suitable sentences using the correct form of the verb tense. Follow the sample sentence given for each tense write your own sentence. (Marks 25)

Tense	Positive sentence	Negative sentence	Negative question
Simple Present Tense	She follows the health guidelines strictly to protect against COVID.	She doesn't follow the health guidelines strictly to protect against COVID.	Doesn't she follow the health guidelines strictly to protect against COVID?
Present Continuous Tense			

ze Text (15 Marks)

**the most appropriate word to complete the text given below. You may
ly word and choose them from box.**

ology has evolved at an astonishing pace, revolutionizing the way we live,
unicate and interact with our surroundings. In the world filled with rapid
..... changes, it is essential to reflect on the impact these
.....have on our environment. While we are embracing this
..... technology, let us evaluate its impact on the 4).....
rent less efforts in technology improvements, industrialization and
ation, have led to both positive and negative effects on our environment.

he 5) of the wheel to the marvels of artificial intelligence,
breakthrough has paved the way of new 6) and brought
ng opportunities. Today we have smartphones that connect us to the
.....at our fingertips and Smart Homes that can adjust to our needs.
..... use advanced sensors and satellites to gather data on climate
e, deforestation and 9)..... This information helps us make
ed decisions to protect and conserve our planet.

rmore, technology has fascinated the development of renewable energy
s such as solar and 10)..... These clean alternatives reduce our
e on 11)..... which helps combat air pollution and mitigate the
s of climate change.

ou know that advancements in 12) energy technology
ed to remarkable increase in global solar 13).....? In fact solar
ty grew by a staggering 30 percent last year.

cities leverage technology to 14) resource usage and improve
ability. Another 15)..... factors that Precision agriculture fueled
nology is revolutionizing farming practices.

able	Scientists	installations	pollution	optimize
ible	fossil fuels	invention	possibilities	world
logical	environment	innovations	wind power	evolving

Q3. Reading Comprehension (25 marks)

Read the text given below and write the answers to the questions set on the passage.

Paragraph 1:

Nanotechnology, a rapidly advancing field, involves the manipulation of matter at the atomic and molecular scale to create new materials, devices, and systems with unique properties and functions. At the heart of nanotechnology lies the nanoscale, where one nanometer is equivalent to one-billionth of a meter. At this scale, materials exhibit novel characteristics that differ from those at larger scales.

Paragraph 2:

One of the key features of nanotechnology is its interdisciplinary nature, drawing upon principles from physics, chemistry, biology, engineering, and materials science. Nano scale materials can be engineered to have specific properties, such as enhanced strength, conductivity, or reactivity, which find applications across various industries, including electronics, medicine, energy, and environmental science.

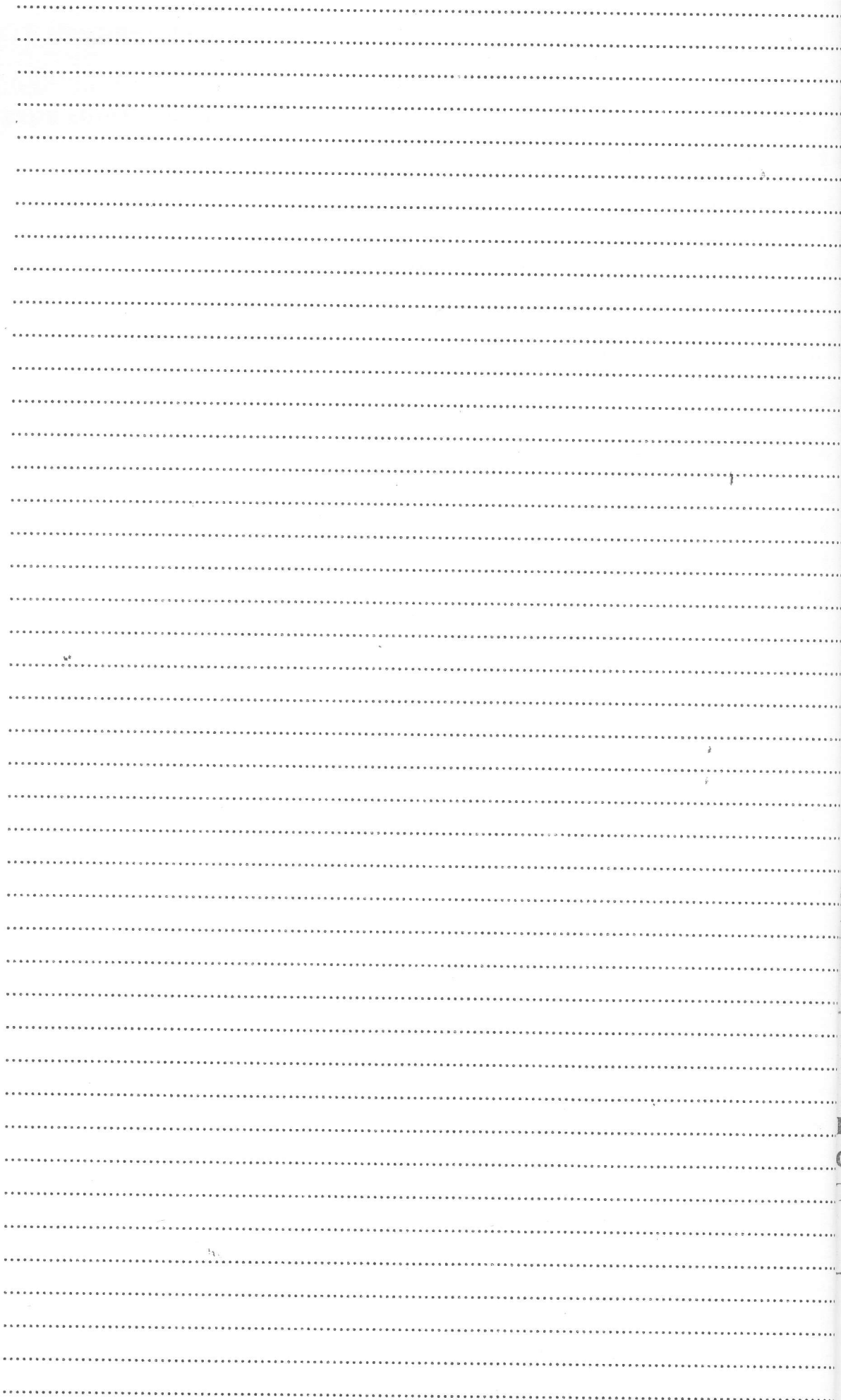
Paragraph 3:

In the realm of electronics, nanotechnology has led to the development of smaller, faster, and more efficient electronic devices, such as transistors and memory chips. In medicine, nanotechnology holds promise for targeted drug delivery, diagnosis, and imaging techniques, enabling precise and personalized treatments for diseases such as cancer.

Paragraph 4:

Despite its immense potential, nanotechnology also raises concerns regarding safety, ethical implications, and environmental impact. The manipulation of nanoparticles poses risks related to toxicity and environmental contamination. Therefore, researchers and policymakers emphasize the importance of responsible development and regulation of nanotechnology to ensure its safe and sustainable integration into society.

Source: Edited from Google for educational purpose.



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Present Perfect Tense			
Present Perfect Continuous Tense			

Tense	Positive sentence	Negative sentence	Negative question
Simple Past Tense	I attended a webinar on AI last week.	I didn't attend a webinar last week.	Didn't I attend a webinar on AI last week?
Past Continuous Tense			

Past Perfect Tense			
Past Perfect Continuous Tense			

Tense	Positive sentence	Negative sentence	Negative question
Simple Future	I will complete the project next month.	I won't complete the project next month.	Won't I complete the project next month?
Future continuous			
Future Perfect			

