

Department of technology

full name :

Grade : 3 year students (mechanical and civil engineering)

Module : English

Text

Whether you're a civil or a mechanical engineer, you'll spend your time transforming concepts and designs into products. You'll develop and create all kinds of items, and you'll use your math, problem-solving, and teamwork skills to do it. You'll analyze and test data to predict whether a product will function properly and whether it will be cost-effective. You might manage projects and teams, ensure that projects meet specifications and regulations, and troubleshoot challenges when things don't go according to plan.

Civil engineering projects are associated with ground contact. Civil engineers focus on buildings and infrastructure such as bridges, tunnels, roads, rivers, dams, and harbors; mechanical engineers design and improve virtually any physical component, structure, or assembly as well as manufacturing processes and associated equipment.

There are differences in the coursework you'll need to prepare for these fields as well. Both civil and mechanical programs are heavy on math, especially calculus and linear algebra. And both cover things like physics (especially mechanics, heat, and electromagnetism), basic engineering principles, and computational mechanics. But civil engineering curricula may also include fluid mechanics, hydraulics, civil engineering technology, and geology, as well as structural design, dynamics, and analysis. Mechanical engineers often also study subjects like computer science and programming, electromechanics, mechanical systems and design, control systems, manufacturing processing, and robotics.

Adopted and adapted

Part one:

1/ say whether the following statements are true or false (3pts)

A/mechanical engineering is symmetric to civil engineering.....

B/both math and physics are trifles subjects of mechanical and civil engineering.....

C/structural engineering disregard the study of the design of buildings.....

2/answer the following questions from the text (2pts)

A/what other materials do mechanical engineering involve?

B/with what are civil engineering projects related?

3/ find in the text words that are close/ opposite in meaning to the following (4pts)

Mutating=.....

disbanding=.....

Weighty=/=.....

solid=/=.....

Part two:

1/ complete the following sentences (5pts)

A/The traffic might have delayed Jimmy.

Jimmy.....

B/I said to him, 'Why don't you work hard?'

.....

C/I (call) the office if I (be) you.

.....

D/the mother said to her daughter, 'be quiet and listen to my words'.

.....

E/ she didn't go to the doctor. He (send) her to the hospital if she (be) in great pain.

.....

Part three:

1/ fill in the gaps using the right word (6pts)

Steam-forces -elevations- power- flowing- water-turbines-vapor

Hydropower acquires the mechanical energy of moving water through hydro turbines or pumped storage systems. Much like wind or turbines, hydro turbines use the kinetic energy of water to spin blades. On the other hand, pumped storage systems use water reservoirs at different to move back and forth and create hydroelectric Both methods reflect the naturally occurring mechanical energy of rivers, streams, waterfalls, oceans, and even rain.

Loads- fields- construction- engineering- static- withstand- engineers- protect

structural engineering works with the structural design and analysis of buildings, bridges and towers as well as offshore structures at oil or gas Structural engineers will assess as well as forces and stresses to ensure a structure is designed to them. These loads can moving or and include those related to climate and weather as well as the weight of the structure itself and anything placed upon or within it. Structural need to also consider cost, ease of, safety, environmental impact and sustainability, and aesthetics.

Correction of the third year students (mechanical and civil engineering)

Part one:

1/ true/false (3pts)

a/false

b/false

c/false

2/ answer the questions from the text (2pts)

a/ *computer science and programming, electromechanics, mechanical systems and design, control systems, manufacturing processing, and robotics.*

b/ *B/ civil engineering projects are related with ground contact*

3/ synonyms/opposite (4pts)

*Mutating=transforming disbanding=solving Weighty=/=heavy
solid=/=fluid*

Part two:

1/ complete the following sentences (5pts)

a/ *A/The traffic might have delayed Jimmy.*

Jimmy might have been delayed by the traffic

*B/I said to him, 'Why don't you work hard?'
I asked him why he didn't work hard*

*C/I (call) the office if I (be) you.
If I were you, I would call the office*

D/the mother said to her daughter, 'be quiet and listen to my words'.

The mother ordered her daughter to be quiet and to listen to her words.

E/ she didn't go to the doctor. He (send) her to the hospital if she (be) in great pain.

b/he would have sent her to the hospital if she had been in great pain

part three:

1/ fill in the gaps (6pts)

1/1Steam-6forces -3elevations- 5power- 2flowing-4 water

2/2Loads- 1fields- 6construction - 4static- 3withstand- 5engineers