

Department of technology

full name.....

Grade: all third year students

Module: English

text

Engineering is the application of science and mathematics to solve problems. Engineers figure out how things work and find practical uses for scientific discoveries. Scientists and inventors often get the credit for innovations that advance the human condition, but it is engineers who are instrumental in making those innovations available to the world.

The function of the scientist is to know, while that of the engineer is to do. Scientists add to the store of verified systematized knowledge of the physical world, and engineers bring this knowledge to bear on practical problems. Engineering is based principally on physics, chemistry, and mathematics and their extensions into materials science, solid and fluid mechanics, thermodynamics, transfer and rate processes, and systems analysis.

Engineers employ two types of natural resources—materials and energy. Materials are useful because of their properties: their strength, ease of fabrication, lightness, or durability; their ability to insulate or conduct; their chemical, electrical, or acoustical properties. Important sources of energy include fossil fuels (coal, petroleum, natural gas), wind, sunlight, falling water, and nuclear fission. Since most resources are limited, engineers must concern themselves with the continual development of new resources as well as the efficient utilization of existing ones.

Part one:

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

a/ it is a compulsory duty for engineers to halt their evolution of new sources due to the scarcity of them.....

b/ the rational use of resources is craved by engineers.....

c/ both engineers and scientists are analogous to each other.....

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

a/ mention why matters are very utile?

.....

b/who is really taken the credit for these regenerations within easy reach in the world? justify.

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

division=..... stretchings=..... assignment=.....

impede=/=..... boundless=/=..... inadequate=/=.....

Part two:

1/ complete the following sentences (3pts)

a/ we make this jam from organic fruit.

→This

b/« can I help you with your essay, Sarah»?

→ Ali (offer).....

c/«don't spend your time watching TV, Sarah»

→Mom (order).....

2/ translate the following terms into Arabic (2pts)

a/friction..... b/magnitude.....

c/criterion.....d/inference.....

3/ match the following tools with its own specialty (2pts)

a/electrical engineering

1/wrenches, washer, bolt

b/ civil engineering

2/ chisels, crimpers, spanners

c/ chemical engineering

3/ stand, crucible, burette

d/mechanical engineering

4/spade, shovel, hoe

4/ fill in the gaps using the right word (5pts)

Materials- services- maintaining- evolution- systems- trainees- applicant

Engineers are involved in the design, evaluation, development, testing, modification, inspection and of a wide range of products, structures and This involves everything from the recommending of and processes, overseeing manufacturing and construction processes, and conducting failure analysis and investigation, to providing consultancy and teaching engineering to students and

Correction of all third year student

Part one:

1/ true/false (3pts)

a/false

b/true

c/false

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

a/ Materials are useful because of their properties: their strength, ease of fabrication, lightness, or durability; their ability to insulate or conduct; their chemical, electrical, or acoustical properties.

b/ engineers. Justification engineers who are instrumental in making those innovations available to the world.

3/ synonyms/opposites (3pts)

Division=fission

stretchings=extensions

assignment=function

impede=/=ease

boundless=/=limited

inadequate=/= efficient

Part two:

1/ complete the following sentences (3pts)

a/ this jam is made from organic fruit. (by us)

b/Ali offered Sarah if he could help her with her essay.

c/ Mom ordered Sarah not to spend her time watching TV.

2/ translation of terms into Arabic (2pts)

a/friction احتكاك

b/magnitude الحجم والمقدار

c/criterion المعيار والمقدار

d/inference استنتاج | استدلال

3/ matching tools (2pts)

a/electrical engineering → chisels, crimpers, spanners

b/ civil engineering → spade, shovel, hoe

c/ chemical engineering → stand, crucible, burette

d/mechanical engineering → 1/wrenches, washer, bolt

4/ fill in the gaps (5pts)

1/maintaining

2/ systems

3/materials

4/services

5/trainees