

Grade: all second year students

Module: English

Text

nuclear weapon, device designed to release energy in an explosive manner as a result of nuclear fission, nuclear fusion, or a combination of the two processes. Fission weapons are commonly referred to as atomic bombs. Fusion weapons are also referred to as thermonuclear bombs or, more commonly, hydrogen bombs; they are usually defined as nuclear weapons in which at least a portion of the energy is released by nuclear fusion.

Nuclear weapons produce enormous explosive energy. For example, the atomic bomb dropped on Hiroshima, Japan, in 1945, containing only about 64 kg (140 pounds) of highly enriched uranium, released energy equaling about 15 kilotons of chemical explosive. That blast immediately produced a strong shock wave, enormous amounts of heat, and lethal ionizing radiation. The enormous toll in destruction, death, injury, and sickness produced by the explosions at Hiroshima and, three days later, at Nagasaki was on a scale never before produced by any single weapon. In the decades since 1945, even as many countries have developed nuclear weapons of far greater strength than those used against the Japanese cities, concerns about the dreadful effects of such weapons have driven governments to negotiate arms control agreements such as the Nuclear Test-Ban Treaty of 1963 and the Treaty on the Non-proliferation of Nuclear Weapons of 1968.

Adapted and adopted

Questions:Part one:

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

- a /nuclear weapon release immense explosive energy.....
- b/ atomic bombs caused nothing but diminutive destruction.....
- c/both fission and fusion weapons are analogous to each other.....

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

a/ what kind of devastation did the atomic bomb leave?

.....

b/why did the governments negotiate arms control agreement?

.....
3/ find in the text words that are close/opposite in meaning to the following words (2pts)

division=.....

havoc =.....

slight=/=.....

deprived =/=.....

Part two:

1/ complete the following sentences (3pts)

a/the barber is shaving Ali's bread.

Ali's.....

b/«did you eat some dessert, Sarah? »

Selma (ask).....

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

Mum (order).....

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

a/combustion.....b/city planning.....

c/friction.....d/maintenance.....

3/ match the following terms with its right specialty (2pts)

a/electrical engineering

1/ distillation, photosynthesis

b/civil engineering

2/assembly, foot brake

c/mechanical engineering

3/ polar contact, vibrating capacitor

d/chemical engineering

4/ working drawing, structure system

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

Structures- manufacturing- processes- materials- maintaining- engineers- products

..... are involved in the design, evaluation, development, testing,
modification, inspection and of a wide range of products,

..... and systems. This involves everything from the recommending of

..... and processes, overseeing and construction

....., and conducting failure analysis and investigation, to providing

consultancy services and teaching engineering to students and trainees.

Correction of the second year students

Part one

1/ true/ false (3pts)

a/true

b/false

c/false

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

a/ The enormous toll in destruction, death, injury, and sickness

b/due to the dreadful effects of such weapons.

3/ synonyms/opposites (2pts)

division=fission / havoc=destruction / slight/=enormous /

deprived/=enriched

Part two

1/ complete the following sentences (3pts)

a/Ali's bread is being shaved by the barber.

b/Salma asked Sarah if she had eaten some dessert.

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

2/ translation of words (2pts)

a/الاحتراق

b/التخطيط العمراني

c/احتكاك

d/الصيانة

3/ matching words (2pts)

a/electrical engineering → polar contact, vibrating capacitor

b/civil engineering → working drawing, structure system

c/mechanical engineering → assembly, foot brake

d/chemical engineering → distillation, photosynthesis

4/fill in the gaps (6pts)

1/ engineers 2/maintaining 3/structures 4/materials

5/manufacturing 6/processes