

In the Name of God

Technical English
University of Tehran
Autumn 95

Vocabulary Quiz #2-A
Name:
Student No.:

1. Fill in the blanks with the appropriate form of the given words; there are some extra words!
(55 points)

infrastructure	protocol	prototype	incoherence
thermostat	diverge	graphite	debug
degenerate	converge	thermometer	permeation
binary	asynchronous	propellant	erode

- i. A *thermostat* may be a control unit for a heating or cooling system or a component part of a heater or air conditioner.
- ii. A convex lens is a lens that *converges* rays of light that are traveling parallel to its principal axis. Convex lenses can be identified by their shape; they are relatively thick across their middle and thin at their upper and lower edges.
- iii. *Asynchronous* circuits have the potential to be faster, and may also have advantages in lower power consumption, lower electromagnetic interference, and better modularity in large systems.
- iv. The *permeation* of electrons, also called diffusion, into depleted region of a p-n junction is the basis of transistor current generation.
- v. *Binary* search is one of the methods for finding a number in which a sorted list is consecutively divided by two and the right half is chosen.
- vi. In Electronics, a *prototype* is often constructed using techniques such as wire wrapping or using breadboard, with the result being a circuit that is electrically identical to the design but not physically identical to the final product.
- vii. *Graphite* is an electric conductor and its conductive properties of the powdered form allows its use as pressure sensor in carbon microphones.
- viii. *Incoherence* in talking can sometimes indicate the individual's incapability of concentration.
- ix. *Debuggers* are software tools which enable the programmer to monitor the execution of a program, stop it, restart it, set breakpoints, and change values in memory.
- x. In order to analyse a city's quality of life, several factor such as cost of living, *infrastructure* of transportation system, quality of education, and etc. should be considered.
- xi. In rockets and aircraft, *propellants* are used to produce a gas that can be directed through a nozzle, thereby producing thrust.

2. Give a reasonable meaning for each word (*in English, of course!*). *If you cannot write the meaning in English, give a sentence example for the word.* (25 points)

i. extracurricular →

ii. fluctuate →

iii. expire →

iv. deviate →

v. simultaneous →

3. Suggest a synonym or a reasonable meaning (*in English, of course!*) for the underlined words. (20 points)

i. The police were confused by the discrepancy between the testimonies of the two witnesses who saw the same event.

ii. Galaxies emit all kinds of electromagnetic radiation, from x-rays to radio waves. From this *light*, astronomers get a clear picture of what these galaxies look like.

iii. In physics, a phenomenon may be a feature of matter, energy, or space-time, such as Isaac Newton's observations of the moon's orbit and of gravity, or Galileo Galilei's observations of the motion of a pendulum.

iv. The measurement of the impedance of devices and transmission lines is a practical problem in radio technology and other fields. It may be carried out at one frequency or over a range of frequencies.

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4. *Generally, how was the vocabulary class? What about the quizzes?*
Express your opinion in a few sentences so that we can gradually make it better! Any truthful objections or suggestions are welcomed. (10 points, bonus)
Thank you all! :)