

In the Name of God

Technical English
University of Tehran
Autumn 95

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

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

converge
asynchronous
extracurricular
infrastructure

diverge
impedance
emit
demodulation

thesis
thermostat
thermometer
fluctuate

influx
protocol
discrepancy
prototype

- i. A *thesis* or dissertation is a document submitted in support of candidature for an academic degree or professional qualification presenting the author's research and findings.
- ii. Throughout childhood and adolescence, hormones may cause weight to *fluctuate* dramatically.
- 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. A *thermostat* may be a control unit for a heating or cooling system or a component part of a heater or air conditioner.
- v. 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.
- 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. A convex lens is a lens that *converge* 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.
- viii. "Hard" *infrastructure* refers to the large physical networks necessary for the functioning of a modern industrial nation, whereas "soft" *infrastructure* (the same word) refers to all the institutions which are required to maintain the economy, health, and cultural and social standards of a country.
- ix. There are several ways of *demodulation* depending on how parameters of the base-band signal such as amplitude, frequency or phase are transmitted in the carrier signal.
- x. The *impedance* of a circuit element can be defined as the ratio of the phasor voltage across the element to the phasor current through the element, as determined by the relative amplitudes and phases of the voltage and current.
- xi. The police were confused by the *discrepancy* between the testimonies of the two witnesses who saw the same event.

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. permeate →

ii. simultaneous →

iii. undermanned →

iv. impel →

v. obstruct →

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

i. 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.

ii. The heat in North Africa has its way of **permeating** into you leaving you tired and drained by the end of the day.

iii. Leonardo Da Vinci wrote extensively about **automatons**, and his personal notebooks are littered with ideas for mechanical creations ranging from a hydraulic water clock to a robotic lion.

iv. **Incoherence** in talking can sometimes indicate the individual's incapability of concentration.

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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! :)