



OLIMPIADA DE LIMBA ENGLEZĂ , ETAPA LOCALĂ- IANUARIE 2017
CLASA a XII-a

SECȚIUNEA B

SUBIECTUL I(25 items x1p=25p)

I.A. Read the passage and answer the questions below.

The next few decades will see great changes in the way energy is supplied and used. In some major oil producing nations, 'peak oil' has already been reached, and there are increasing fears of global warming. Consequently, many countries are focusing on the switch to a low carbon economy. This transition will lead to major changes in the supply and use of electricity. [A] Firstly, there will be an increase in overall demand, as consumers switch from oil and gas to electricity to power their homes and vehicles. [B] Secondly, there will be an increase in power generation, not only in terms of how much is generated, but also how it is generated, as there is growing electricity generation from renewable sources. [C]. To meet these challenges, countries are investing in Smart Grid technology. [D] This system aims to provide the electricity industry with a better understanding of power generation and demand, and to use this information to create a more efficient power network.

Smart Grid technology basically involves the application of a computer system to the electricity network. The computer system can be used to collect information about supply and demand and improve engineer's ability to manage the system. With better information about electricity demand, the network will be able to increase the amount of electricity delivered per unit generated, leading to potential reductions in fuel needs and carbon emissions. Moreover, the computer system will assist in reducing operational and maintenance costs.

Smart Grid technology offers benefits to the consumer too. They will be able to collect real-time information on their energy use for each appliance. Varying tariffs throughout the day will give customers the incentive to use appliances at times when supply greatly exceeds demand, leading to great reductions in bills. For example, they may use their washing machines at night. Smart meters can also be connected to the internet or telephone system, allowing customers to switch appliances on or off remotely. Furthermore, if houses are fitted with the apparatus to generate their own power, appliances can be set to run directly from the on-site power source, and any excess can be sold to the grid.

With these changes comes a range of challenges. The first involves managing the supply and demand. Sources of renewable energy, such as wind, wave and solar, are notoriously unpredictable, and nuclear power, which is also set to increase as nations switch to alternative energy sources, is inflexible. With oil and gas, it is relatively simple to increase the supply of energy to match the increasing demand during peak times of the day or year. With alternative sources, this is far more difficult, and may lead to blackouts or system collapse. Potential solutions include investigating new and efficient ways to store energy and encouraging consumers to use electricity at off-peak times.

A second problem is the fact that many renewable power generation sources are located in remote areas, such as windy uplands and coastal regions, where there is currently a lack of electrical infrastructure. New infrastructures therefore must be built. Thankfully, with improved smart technology, this can be done more efficiently by reducing the reinforcement or construction costs.

Although Smart Technology is still in its infancy, pilot schemes to promote and test it are already underway. Consumers are currently testing the new smart meters which can be used in their homes to manage electricity use. There are also a number of demonstrations being planned to show how the smart technology could practically work, and trials are in place to test the new electrical infrastructure. It is likely that technology will be added in 'layers', starting with 'quick win' methods which will provide initial carbon savings, to be followed by more advanced systems at a later date. Cities are prime candidates for investment into smart energy, due to the high population density and high energy use. It is here where Smart Technology is likely to be promoted first, utilising a range of sustainable power sources, transport solutions and an infrastructure for charging electrically powered vehicles. The infrastructure is already changing fast. By the year 2050, changes in the energy supply will have transformed our homes, our roads and our behaviour.

1 According to paragraph 1, what has happened in some oil producing countries?

A They are unwilling to sell their oil any more. B They are not producing as much oil as they used to. C The supply of oil is unpredictable. D Global warming is more severe here than in other countries.

2 Where in paragraph 1 can the following sentence be placed?

There is also likely more electricity generation centres, as households and communities take up the opportunity to install photovoltaic cells and small scale wind turbines.

A, B, C, D

3 Which of the following is NOT a benefit of Smart Grid technology to consumers?

A It can reduce their electricity bills. B It can tell them how much energy each appliance is using. C It can allow them to turn appliances on and off when they are not at home. D It can reduce the amount of energy needed to power appliances.

4 According to paragraph 4, what is the problem with using renewable sources of power?

A They do not provide much energy. B They often cause system failure and blackouts. C They do not supply a continuous flow of energy. D They can't be used at off-peak times.

5 In paragraph 5, what can be inferred about cities in the future?

A More people will be living in cities in the future than nowadays. B People in cities will be using cars and buses powered by electricity. C All buildings will generate their own electricity. D Smart Grid technology will only be available in cities.

6 The word 'remote' in paragraph 5 could be best replaced by:

A isolated B crowded C attractive D alone

7 The word 'underway' in paragraph 6 is closest in meaning to:

A permanent B complete C beneficial D in progress

8. What is the main idea of the final paragraph? (paragraph 6).

A To describe who will benefit from Smart Grid technology first. B To outline the advantages of Smart Grid technology. C To summarise the main ideas in the previous paragraphs. D To describe how, where and when Smart Technology will be introduced.

9 In paragraph 6, what can be inferred about the introduction of Smart Grid Technology?

A The technologies which produce most benefits will be introduced first. B The cheapest technologies will be introduced first. C The technologies which are most difficult to put into place will be introduced first. D Technologically advanced systems will be introduced first.

10-12 Which THREE of the aspects below are answered in the passage?

- A How consumers are likely to respond to Smart Grid technology.
- B The problems which will have to be overcome in switching to Smart Grid technology.
- C The reasons why Smart Grid technology will be needed in the future.
- D A comparison between Smart Grid technology and the present electrical distribution system.
- E The ways Smart Grid technology will affect the way consumers use energy.
- F An analysis of the costs and benefits of Smart Grid technology.

I.B. Put each of the headlines with a sentence from the story below. Write only the correct letter (A-M) after each headline.

- A. Rev. Parsley, worried about falling church attendance figures, came up with the idea after watching a programme on British TV whilst on vacation there.
- B. The UN official, who declined to be named, said the money would not have to be paid if the kingdom came into line with the rest of the nations.
- C. The weather is not forecast to improve over the next few days which will only make the rescuers' task even more difficult.
- D. A getaway vehicle was found burnt out in an alleyway some six miles across town from where the bank was held up.
- E. The government is believed to have been surprised at the rise in unemployment figures and this could explain the shortfall in funds.
- F. The trawler got into trouble off Sri Lanka as waves as high as 20 feet threatened to engulf the vessel.
- G. If agreed, the agreement would see a huge increase in Asian imports into the American market and this has worried some politicians.
- H. Increased competition from the Far East has also led to lower profits and job losses have been on the cards since the spring.
- I. Not only are people worried about inflation but the latest interest rates rise has also caused less movement on the property market than is usual for this time of year.

J. Added to this are the effects of the recently signed trade treaty with Europe which many struggling companies had called for.

K Archaeological research has suggested it may have been at the heart of a "lost kingdom" from the Dark Ages.

L. The awards season was supposed to belong to both Parker and Affleck, as both of their films had stormed out of Sundance a year ago this week to positive reception with glory in their sights.

M. Three of his companies filed eight lawsuits in local court against families who collectively inherited 14 parcels of land through the Kuleana Act.

Headlines 1-13

1. Cops Hunt 4 After \$5m Heist 2. US Said To Be Against Trade Deal

3. UN Offers Hope On Saudi Fine 4. Brighter News On Job Front

5. Thousand To Go At Auto Plant 6. Fall In Aid To Jobless

7. Call To Altar Falls Flat 8. Indian Crew Plucked From Waves

9. 5 Die In Floods, Landslide 10. Unease Causes House Price Wobble

11. 'Lost kingdom' linked to Galloway 12 Race, privilege and a bad attitude: Why are they treated differently? 13. Mark Zuckerberg is suing hundreds of Hawaiians to protect his 700-acre Kauai estate.

SUBIECTUL II(25p)

Consider the excerpt below while addressing the question: Is 'Brexit' beneficial to the UK?(25p)

In a speech that could define Britain's relations with its neighbors for decades to come, Prime Minister Theresa May on Tuesday charted a course toward a clean break with the European Union, calling for the country to abandon the single market after more than four decades of integration with the Continent.

Write an editorial expressing your views on the matter. Choose your own title (300 words).

SUBIECTUL III(50p). Consider the following:

People are never satisfied with what they have; they always want something more or something different. Do you agree ?

Write an opinion essay addressing the issue above. (300-350 words)

NOTĂ

- **Toate subiectele sunt obligatorii.**
- **Nu se acordă puncte din oficiu.**
- **Timp de lucru: 3 ore.**