



## MODEL QUESTION 19

Unit: 11, lesson: 2

Read the following passage and answer the questions following it

In a speech at the 90<sup>th</sup> Science Congress, internationally acknowledged scientist and former Indian president Mr APJ Abdul Kalam mentioned a very important aspect of mankind's future energy crisis. He pointed out that the era of wood and bio-mass has almost come to an end. The age of oil and natural gas would soon be over within the next few decades. Massive burning of world's coal reserves may lead to a worldwide ecological disaster because coal burning emits the highest amount of carbon in the atmosphere. Ukraine's (former Soviet Union) Chernobyl disaster in 1986 has exposed that nuclear energy can be potentially dangerous too. So according to Kalam, the only solution that mankind can look to is the massive use of solar energy in future because it has some advantages over other forms of renewable energies. Now why has Kalam put so much importance to the issue of energy? The energy sources have always been a major factor of change throughout history. The world's petroleum consumption has increased from annually 3 billion barrels in 1930 to annually 50 billion barrels today. In the next quarter century, the world's population is expected to be about 8 billion which is 30 percent higher than today. Developing countries will grow their economies about two times faster than industrialised countries. Global economic growth is expected to continue at 3 percent per year. Consequently, the global demand for energy will grow at about 1.7 percent per year on an average. It indicates a 50 percent rise of energy consumption by 2030. If the world's daily petroleum consumption is 220 million barrels now, it will rise to 335 million barrels by that time. The present reserve of hydro-carbon energy resources is limited and it will not be sufficient to meet the future energy challenges of the world. And hence, leading industrial countries have taken initiatives to tap alternative energy sources mainly known as green or renewable energy sources. The bottom line of Kalam's speech indicates that concern of mankind in the 21<sup>st</sup> the century.

1. Choose the correct answer from the alternatives.

1x7=7

- (a) Which of the following has the closest meaning of the word **Massive**?
- (i) ponderous                      (ii) light                      (iii) weightless                      (iv) witty
- (b) Which of the following has the closest meaning of the word **emit**?
- i) vomit                      ii) give in                      iii) take                      iv) discharge
- (c) Which of the following has the closest meaning of the word **consumption**?
- i) relinquish                      ii) expensive                      iii) desolate                      iv) expenditure
- (d) There will be fuel crisis because \_\_\_\_\_
- (i) its store is limited.                      (ii) Bangladesh has no oil mine
- iii) it is very costly                      (iv) it is very useful thing.

- (e) Which of the following statement is true?
- the present reserve of hydro-carbon is sufficient
  - the present reserve of hydro-carbon is not according to our need
  - the present reserve of hydro-carbon is much
  - the present reserve of hydro-carbon is not insufficient
- (f) Green energy can be got from\_\_\_\_\_
- the ocean
  - the sun
  - the hydro-carbon
  - natural gas
- (g) Which of the following has the closest meaning of the word initiative?
- instigate
  - drive
  - refill
  - reverse
- (h) What is the suggestion of Mr. APJ Abdul Kalam?
- To store enough energy
  - To plant more trees
  - To look to solar energy
  - To find new gas fields
- (i) What does the phrase "**massive burning of world's coal**" mean?
- The world's annihilating coal
  - The world's reducing coal
  - The world is producing coal
  - The world's stocking coal
- (j) Which of the following has the closest meaning of the phrase "**internationally acknowledged scientist**" used in the passage?
- Famous in the world
  - Famous in the office only
  - Locally reputed
  - Famous among his friends only
- (k) Why will be there fuel crisis?
- It is unexplored
  - Its reserve is limited
  - It is expensive
  - It is reducing
- (l) What is the former name of the country in which Ukraine was a state \_\_\_\_\_?
- United states
  - Soviet Union
  - United Kingdom
  - Russia
- (m) It is said "**The era of wood and biomass has almost come to an end.**" What is meant by the statement?
- The stock of wood and biomass is static
  - The stock of wood and biomass is about to be exhausted
  - The prospect of wood and biomass is positive
  - The stock of wood and biomass is increasing gradually
- (n) Which of the following best describes the advantages of renewable energies?
- The smoke created by burning the woods helps rain in the dry season



# English Language Zone

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- ii. Carbon dioxide gas helps melt the ice-caps on the sea
- iii. Massive burning of world's coal reserves fails to lead to a worldwide ecological disaster
- iv. Coal burning emits the highest amount of carbon in the atmosphere
- (o) Huge burning of oil and coal \_\_\_\_\_
- i is posing a great threat to our environment
- ii. has no bad effect on our environment
- iii. producing a great deal of oxygen in the atmosphere
- iv. has developed the world industrially keeping the environment intact
- (p) Solar energy can be \_\_\_\_\_
- i. a beneficial alternative to our present energy sources      ii. a small source for us
- iii. more destructive to our environment      iv. no solution to our energy-crisis
- (q) With which of the following don't you agree?
- i. By 2030, the energy consumption will rise by 50%      ii. Only solar energy is a renewable energy
- iii. We are going to face energy crisis      iv. 220 million barrels are consumed daily
- (r) What does the expression, "**The world's petroleum consumption has increased**" mean?
- i. The production of petroleum has been increased more than before
- ii. The use of petroleum has been reduced in the present decades
- iii. The usage of petroleum is now on the wane
- iv. The use of petroleum has been accelerated more than before
- (s) The passage is about \_\_\_\_\_
- i. oil and natural gas      ii. greenhouse effect
- iii. mankind's future energy crisis      iv. environment pollution
- (t) What is the expectation of global economic growth?
- i. 2 percent every year      ii. 4 percent every year      iii. 3 percent every year      iv. 1 percent every year

2. Answer the following questions.

2x5=10

- a) What is the scientist Kalam concerned about?
- b) Why do you think the massive burning of coal may lead to an ecological disaster?
- c) What do you mean by the potential danger of nuclear energy?
- d) What according to Mr Kalam is the solution of future energy crisis?
- e) Why does Mr Kalam put so much importance to the issue of energy?
- f) Why does Mr Kalam put much importance to solar energy?

Countries of the world rely heavily on petroleum, coal and natural gas for their energy sources. There are two major types of energy sources: renewable and nonrenewable. Hydro-carbon or fossil fuels are non-renewable sources of energy. Reliance on them poses real big problems. First, fossil fuels such as oil, coal, gas etc, are finite energy resources and the world eventually will run out of them. Secondly, they will become too expensive in the coming decades and too damaging for the environment to repair. Thirdly, fossil fuels have direct polluting impacts on earth's environment causing global warming. In contrast, renewable energy sources such as, wind and solar energy are constantly and naturally replenished and never run out. Most renewable energy comes either directly or indirectly from the sun. Sunlight or solar energy can be used for heating and lighting homes, for generating electricity and for other commercial and industrial uses. The sun's heat drives the wind and this wind energy can be captured with wind turbines to produce electricity. Then the wind and the sun's heat cause water to evaporate. When this water vapour turns into rain or snow and flows downhill into rivers or streams, its energy can be captured as hydroelectric energy. Along with the rain and snow, sunlight causes plants to grow. Plants produce biomass which again can be turned into fuels such as fire wood, alcohol, etc identified as bioenergy.

3. Fill in the blank with suitable word. Use one word only in each blank.

1×5=5

Renewable energy sources are the energy sources which are constantly and naturally (a)\_\_\_\_\_ and never run out. In its various forms, it derives directly from the sun, or from heat (b)\_\_\_\_\_ deep within the earth. Included in the definition is (c)\_\_\_\_\_ and heat generated from solar, wind, ocean, hydropower, biomass, geothermal resources and (d)\_\_\_\_\_ and hydrogen derived from (e)\_\_\_\_\_ resources.