



MODEL QUESTION 20

Unit: 11, lesson: 3

Read the following passage and answer the questions following it

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.

Scientists have identified Hydrogen as another form of renewable energy source. It is the most abundant element in nature. But it does not exist separately as a gas. It is always combined with other elements, such as with oxygen to make water. Hydrogen, separated from another element, can be burned as a fuel to produce electricity. Our Earth's interior contains molten lava with tremendous heat. This heat inside the Earth produces steam and hot water which can be tapped as geothermal energy to produce electricity, for heating home, etc.

Ocean energy comes from several sources. Ocean's force of tide and wave can be used to produce energy. The surface of the ocean gets more heat from the sun than the ocean depths. This temperature difference can be used as energy source too.

1. Choose the correct answer from the alternatives.

1x7=7

- (a) Which of the following has the closest meaning of the word **Reliance** ?
(i) independence (ii) dependence (iii) depressed (iv) disbelief
- (b) Which of the following has the closest meaning of the word **decade**?
i) ten years ii) 12 years iii) fifty years iv) 100 years
- (c) Which of the following has the closest meaning of the word **replenish**?
i) refill ii) isolate iii) desolate iv) island

- (d) Which of the following best describe the main source of most renewable energy?
- (i) most renewable energy comes either directly or indirectly from the sun.
 - (ii) most renewable energy comes directly from the sea.
 - (iii) most renewable energy comes indirectly from the rivers.
 - (iv) most renewable energy comes directly or indirectly from the sea and rivers.
- (e) Which of the following statement is true?
- i) biomass is mainly used for heating
 - ii) solar is mainly used for heating
 - iii) geothermal is mainly used for heating
 - iv) biofuels is mainly used for heating
- (f) Which one is the most abundant element in nature?
- i) hydrogen
 - ii) potassium.
 - iii) oxygen
 - iv) none of them
- (g) Which of the following has the closest meaning of the word ' tremendous '?
- i) tiny
 - ii) gargantuan
 - iii) trifling
 - iv) small
- (h) We should avoid using non-renewable energy for its being _____
- i. friendly to environment
 - ii. ecologically inconvenient
 - iii. responsible for global warming
 - iv. ii and iii
- (i) Flows of downhill rainwaters can be used for _____
- i. hydro-electric generation
 - ii. wheeling mills & factories
 - iii. driving motor vehicles
 - iv. household activities
- (j) The sun is responsible
- i. for the destruction of the world
 - ii. to cause evaporation of sea-water and then rain
 - iii. for our environment pollution
 - iv. for our many difficulties
- (k) The phrase "run out" means _____
- i. start
 - ii. pause
 - iii. begin
 - iv. finish
- (l) Hydro-carbon is _____
- i. Renewable
 - ii. Non-renewable
 - iii. partly renewable
 - iv. None of them
- (m) What does the expression, "reliance on them poses real big problems" mean?
- i. Dependence on renewable energy sources may bring about danger
 - ii. Dependence on non-renewable energy sources creates truly great problems
 - iii. Utilizing renewable energy source can be destructive



English Language Zone

JSC, SSC & HSC English

592 North Shahjahanpur, Dhaka. 01772828790

- iv. Depending on renewable energy sources is not safe as far as environment is concerned
- (n) What is the main purpose of the author of this passage?
- To show the destructive aspects renewable energy sources
 - To put up the best aspects of using renewable energy sources in contrast with non-renewable energy sources
 - To put up the positive things of non-renewable energy sources
 - To represent various renewable and non-renewable energy sources
- (o) Why do fossil fuels have impact on earth's environment?
- Because they make the environment warm
 - Because they are too expensive
 - Because they pollute the world
 - Because they too damaging to repair the world
- (p) Which of the following statement is true?
- Hydrocarbon is a source of Hydroelectricity
 - Fossil fuels are responsible for climate change
 - Exploration of fuels is the wisest device
 - Alternative power generating devices are to be discouraged
- (q) Hydrogen exists in nature _____
- in a gaseous form
 - with oxygen
 - segregated from water molecules
 - in compound from with other elements
- (r) What is the main purpose of the author of this text?
- to highlight non-degradable energy resource
 - to highlight the use of renewable energy
 - to highlight the importance of fossil fuel
 - to highlight the vast oceans
- (s) What can be trapped as geothermal energy?
- steam and river
 - river and hot wind
 - steam and hot water
 - wind and sunlight
- (t) Consumption of fossil fuels _____
- does not create any problem for us
 - is favourable for our happy life in the world
 - is not an abundant element in nature
 - is causing irreparable damage to our environment

2. Answer the following questions.

2x5=10

- a) What do you mean by renewable energy sources?
- b) What are the problems with non-renewable energy sources?
- c) What are the major differences between renewable and non-renewable energy sources?
- d) Describe how sunlight can be used?
- e) Do you support the idea that the ocean can also be used in various ways? Why/ why not?

Sohan lives in a village in the south-west part of Bangladesh. Last night he could not sleep. His sister had the SSC exam next morning. She could not read either. There was load shedding. The summer night being sticky hot, life became hell without electricity. Most of their area remained dark for hours due to power shortage.

In May-June, temperature shoots up to 40 degree Celsius. With almost 90 per cent of humidity in the atmosphere, it becomes all sweat, wet, damp and stinky. When you are busy fanning yourself all the time, how come you concentrate on studies? In the night it is impossible to sit in the study with a candle light or table lamp or hurricane lamp or a rural kerosene lamp. People simply come out of houses almost bare-bodied and sit in the open places. Some splash cold water on their faces. Fans are still, lamps are out and it is dark everywhere. It is simply unbearable. What is the reason of frequent load-shedding? Press reports say there is a shortage in electricity production. According to the Power development authorities, the demand for electricity a few years ago was more than 6,000 MW* a day while the supply remained around 4,200 MW. In the rural areas, the Rural Electrification Board (REB) could supply barely half of the total demand which was around 2,400 MW per day. In the capital city, the demand stood at around 1,400 MW while the supply amounted to 650 MW. As a result, load-shedding is unavoidable for the time being. But situation is improving very fast.

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

1× 5 = 5

Load shedding has become a part and (a) _____ of our daily life. It reaches its peak in the summer when the weather is (b) _____ hot. If electricity (c) _____ in this period, living a normal life turns to be a struggle for survival. Student cannot (d) _____ to their study properly. It is a great problem for (e) _____ society.

ENGLISH LANGUAGE ZONE
Committed to better teaching