

**01 Set**  
**ENGLISH**  
**FIRST PAPER**

*[According to the Syllabus of 2024]*

Subject Code :

1	0	7
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Time—3 hours  
 Full marks—100

*[N.B. Answer all the questions. The figures in the right margin indicate full marks.]*

**Part A—Reading Test**  
**Marks-50**

Read the passage then answer the questions no. 1 and 2 :

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 non-renewable. Hydro-carbon or fossil fuels are non-renewable sources of energy. Reliance on them poses real big problems. Firstly, 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. 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 the 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 that are called 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 which gives off extreme heat. This heat inside the Earth produces steam and hot water which can be used as geothermal energy to produce electricity for heating homes, 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.

I. Choose the correct answer from the following alternatives .

Marks  
 1×7=7

- (i) The main types of energy sources are—  
 (a) natural and nuclear (b) renewable and non-renewable  
 (c) non-renewable, renewable and fossil (d) natural and man-made
- (ii) Which of the following has the closest meaning of the word 'extreme'?  
 (a) minimum (b) medium (c) external (d) immense
- (iii) We should use renewable energy because it ——— .  
 (a) never runs out (b) finite  
 (c) is in sufficient (d) can be damaging

*[Please turn over*

# Jsc Exam 2014 English Qursen Barishal Boad

**K Payea**



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web jun 1 2023 aisi 4145 exhibits excellent strength toughness and wear resistance as a low alloy steel grade the minimum yield strength of aisi 4145 is 89 ksi while the ultimate tensile strength is between 125 140 ksi depending on the heat treatment conditions

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web as compared to 4140 the 4145 mod grade has higher levels of chromium and molybdenum which will provide much deeper hardening into the steel after austenitizing quenching and tempering this alloy should not be confused with aisi 4145 as the chemical limits for the modified version are much higher