



Subject: Science

Class/Section: 8th A/B _____

SECTION - A

Q No. 1 – Mark the correct option. Each question carries 01 mark. Cutting or double option does not award any marks. Use of any chemical would consider wrong answer. (05 marks)

1) Which part of a bicycle dynamo spins in order to generate electricity?

- A) the coil (C) a magnet
B) the tyre (D) a galvanometer

2) The electricity we use in our homes and schools is called:

- (A) Low current (C) indirect current
(B) Alternating current (D) direct current

3) What is the core of a transformer made of?

- (A) Solid iron (C) solid steel
(B) Thin sheets of iron fixed together (D) thin sheets of copper fixed together

4) An energy source which cannot be replaced once it has all been used up is called a:

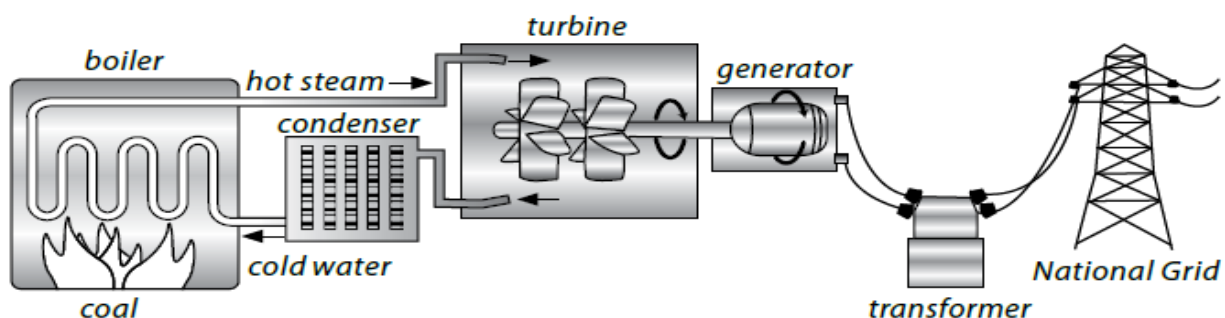
- (A) Renewable energy source (C) non-renewable energy source
(B) fossil fuel (D) replenish able energy source

5) Which is the voltage at which power stations usually produce electricity?

- (A) 230 V (C) 15,000 V
(B) 25,000 V (D) 400,000 V

SECTION – B

Q No. 2: The diagram below shows the energy changes that take place in a power station that uses coal for its fuel. (10 marks)



- a) What kind of energy is stored in coal?

- b) How is the energy stored in coal released?

- c) What is the energy released from the coal used for in a power station?

- d) What energy transfer takes place when the steam enters the turbine?

- e) What energy transfer takes place when the turbine turns the generator?

- f) Coal is a fossil fuel. Name TWO other fossil fuels.

- g) How were fossil fuels formed?

- h) Why fossil fuels are called non-renewable sources of energy?

- i) Name TWO environmental problems that may arise because of the use of fossil fuels in power stations.

- j) Suggest TWO ways in which we could make fossil fuels last longer

SECTION – C

Q No. 3 – ANSWER THE FOLLOWING QUESTION (2+2+3+3=10 marks)

- a) What are diodes and capacitors?

- b) What is the binary code?

c) Why is electrical energy transmitted at high voltage?

d) What is national grid?

THE END