



## ST. LAWRENCE HIGH SCHOOL



A JESUIT CHRISTIAN MINORITY INSTITUTION

Subject- Physical science

Workshee- 12

Class – 7

Date -22.04.2020

Chapter- Energy

- Q Answer the following questions (MCQ) : (1×15):

• 1.

Which among the following is most energy efficient?

- A.  
Incandescent bulb
- B.  
Fluorescent tube light
- C.  
Compact fluorescent lamp
- D.  
All are equally efficient

• 2.

In India and elsewhere, biomass can be obtained from

- A.  
Groundnut shells
- B.  
Sugarcane bagasse
- C.  
Rice husk
- D.  
All of the above

• 3.

Solar cells are simple photovoltaic devices that convert solar energy directly into electricity and are manufactured from the second-most abundant element in the earth's crust. Name it.

- A.  
Bauxite

- B.  
Silicon
- C.  
Calcium
- D.  
Magnesium

• 4.

Biogas is a methane-rich gas formed by fermentation of animal dung, human sewage and crop residue. The advantage(s) of biogas is/are:

- A.  
A clean and smokeless fuel
- B.  
Slurry left behind is used as fish feed
- C.  
High potential in rural India
- D.  
All of the above

• 5.

In rural areas, this gas can be generated and used for cooking and lighting.

- A.  
Biogas
- B.  
Oxygen
- C.  
Ammonia
- D.  
None of these

• 6.

Large amounts of solar energy is stored in the oceans and seas. The process of harnessing this energy is called

- A.  
OTEC (ocean thermal energy conversion)
- B.  
OTC (ocean thermal conversion)
- C.  
OSTEC (ocean and sea thermal energy conversion)

○ D.  
OTEC(Ocean technology of energy conversion)

• 7.

A much cheaper and lighter fuel extracted from crude oil is used to adulterate petrol in the ratio 3:1 (adulterant : petrol). It causes damage to the vehicle engine, besides leading to high emission levels. Name this common adulterant of petrol that most easily escapes detection.

○ A.  
Diesel

○ B.  
Kerosene

○ C.  
Naphtha

○ D.  
Mobile oil

• 8.

Some people object to wind turbines because:

○ A.  
They do not like windmills

○ B.  
They get in the way of photographs

○ C.  
Wind farms are not real farms

○ D.  
They are often built in areas of natural beauty

• 9.

Natural gas is transported mainly by

○ A.  
Pipelines

○ B.  
Trucks

○ C.  
Auto rickshaw

○ D.  
All three equally

• 10.

How much of the energy in burning coal reaches the consumer as electricity

- A.  
1/3 (one-third)
- B.  
1/2 (one-half)
- C.  
3/4 (three-quarters)
- D.  
9/10 (nine-tenths)

• **11.**

Plastic was once hailed as the wonder material but is now becoming a serious environmental and health problem due to its non-biodegradable nature. Burning of plastics, especially PVC, releases the following harmful gas into the atmosphere.

- A.  
Dioxins
- B.  
Le
- C.  
O
- D.  
PI

• **12.**

The state's and citizens' responsibilities for environmental protection is enshrined in the Constitution of India in the following two articles:

- A.  
38G and 58A
- B.  
55B and 51D
- C.  
48A and 51G
- D.  
59B and 12D

• **13.**

A device is fitted to motor vehicles to chemically reduce some gases produced by internal combustion engines like NO<sub>x</sub>, CO, and HC into less harmful products. Name this device.

- A. Catalytic converter
- B. 2-stroke engines
- C. Carburetor
- D. Tail pipe

• **14.**

The nodal agency for coordinating the energy conservation activities under EC act in India is

- A. Bureau of Indian standards
- B. Bureau of Energy Efficiency
- C. Bureau of Energy Education
- D. Bureau of Energy and Environment

• **15.**

.....of power consumed by Incandescent Bulbs gets wasted in the form of heat

- A. 60%
- B. 75%
- C. 85%
- D. 50%