

- Q.26 Explain any one method of washing of coal
Q.27 Write the advantages of nuclear power plant
Q.28 Write the uses of petroleum products
Q.29 State tidal energy and write their applications
Q.30 Write the uses of natural gas
Q.31 Explain the working of solar water heater
Q.32 Explain any one type of horizontal axis wind turbine
Q.33 Write a short note on origin of petroleum
Q.34 Explain fisher tropsch process
Q.35 Discuss any one of the following
a) Blast furnace
b) solar cooker

SECTION-D

Note: Long answer type questions. Attempt any two questions out of three questions. (2x10=20)

- Q.36 What are renewable energy fuels. Write its types and also explain its merits and demerits.
Q.37 Describe the manufacturing and uses of producer gas
Q.38 Write a note on any two of the following
i) continuous rotary kiln
ii) Wind Turbine
iii) Distillation of crude oil

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**4th Sem / Chem
Subject:- Energy Technology**

Time : 3Hrs. M.M. : 100

SECTION-A

Note: Multiple choice questions. All questions are compulsory (10x1=10)

- Q.1 Which of the following is not a non-renewable energy source
a) Petrol b) Diesel
c) Coal d) wind
- Q.2 In LPG letter G stands for
a) Growth b) Gross
c) Gas d) Great
- Q.3 Which one is the most dangerous gas
a) Hydrogen b) Methane
c) Ethane d) Butane
- Q.4 Which of the following coal has the highest calorific value
a) Bituminous coal b) Anthracite coal
c) lignite coal d) Peat

- Q.5 Which of the following is a vertical axis windmill.
a) Multiblade type b) darrieus type
c) Savonious type d) None of these
- Q.6 Which fuel offers the highest heating value
a) Gaseous fuel b) liquid fuel
c) solid fuel d) None of these
- Q.7 The quality of best fuel is
a) its low cost
b) the negligible ash
c) its high calorific value
d) its easy availability
- Q.8 The gobar gas is mainly composed by
a) CO and CO₂ b) CH₄ and CO₂
c) H₂ and O₂ d) CH₄ and O₂
- Q.9 Combustion reaction is
a) Exothermic b) Endothermic
c) autocatalytic d) Photochemical
- Q.10 Ignition of liquid fuel at its flash point would cause
a) no combustion
b) continuous combustion
c) a momentary flash
d) fire

SECTION-B

Note: Objective type questions. All questions are compulsory. (10x1=10)

- Q.11 Name two conventional fuel
Q.12 Define calorific value
Q.13 Write two uses of LPG
Q.14 Define blast furnace.
Q.15 Write two applications of wind energy
Q.16 Name the theories of origin of coal
Q.17 Write two uses of bio gas
Q.18 Name the raw material of nuclear power plant
Q.19 State the function furnace.
Q.20 Name any two petroleum product

SECTION-C

Note: Short answer type questions. Attempt any twelve questions out of fifteen questions. (12x5=60)

- Q.21 Write merits and demerits of gaseous fuel
Q.22 Explain the working of glass melting furnace with its neat diagram
Q.23 Draw the neat diagram of thermal power plant
Q.24 Describe the manufacturing process of water gas
Q.25 Explain the working principle of vertical axis wind turbine