

Q.20 Write down applications of solar energy in agricultural sector. (CO5)

Q.21 Write down advantages and disadvantages of geothermal energy over other form of energy.(CO4)

Q.22 Describe the factors affecting the biogas production. (CO2)

SECTION-D

Note: Long answer type questions. Attempt any two questions out of three questions. (2x8=16)

Q.23 What are the different types of wind mills? Explain the construction detail of any one type of wind mill in detail. (CO3)

Q.24 Differentiate between fixed dome type and floating gas holder bio-gas plant. (CO2)

Q.25 What is the basic principle of tidal power? Write down advantages and limitations of tidal power plant. (CO4)

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5th Sem / Agriculture Engineering

Subject : Renewable Energy Sources in Agriculture Engineering

Time : 3 Hrs.

M.M. : 60

SECTION-A

Note: Multiple choice questions. All questions are compulsory (6x1=6)

Q.1 Which of the following biochemical conversion process is performed by microorganisms? (CO2)

- a) Anaerobic b) Composting
- c) Fermentation d) All of these

Q.2 Photovoltaic solar cells are made of (CO5)

- a) Silicon b) Carbon
- c) Argon d) Aluminium

Q.3 Biogas contains mainly (CO2)

- a) Oxgen b) Methane
- c) Acetylene d) CO

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Q.4 Which of the following is a non-renewable resource?

- a) Coal b) Solar (CO1)
c) Geothermal d) Tidal

Q.5 Which of the following of energy caused by uneven heating of earth's surface? (CO4)

- a) Wind b) Solar
c) Geothermal d) Biomass

Q.6 Which of the following is a substrate for biogas production? (CO2)

- a) Metallic waste b) E- waste
c) Municipal and residential waste
d) Gaseous effluents

SECTION-B

Note: Objective/ Completion type questions. All questions are compulsory. (6x1=6)

Q.7 Full form of KVIC is _____ . (CO2)

Q.8 Define energy conservation . (CO1)

Q.9 Enlist types of biogas plants. (CO2)

Q.10 Write appliances of biogas plant. (CO2)

Q.11 Write down renewable energy resources . (CO1)

Q.12 Write name of any scheme for promotion of use of renewable sources of energy. (CO5)

SECTION-C

Note: Short answer type questions. Attempt any eight questions out of ten questions. (8x4=32)

Q.13 Discuss wind energy potential scenario in India. (CO3)

Q.14 What is the basic principle of tidal power? List down components of tidal power plant. (CO4)

Q.15 Write down safety measures in Bio-gas plant.(CO2)

Q.16 Describe the biomass densification . (CO2)

Q.17 Differentiate between renewable and non-renewable sources of energy. (CO1)

Q.18 What type of data required for installation of a wind mill? (CO3)

Q.19 What do you mean by energy conservation? Write down its scopes . (CO1)