

MCQ Question Solving Session-6

Subject: Energy Conservation and
Management

Subject Code: 2181916

Prof. Krunal Khiraiya

81. To assess the existing situation of a plant, good energy saving strategy plan starts with...

- a) energy audit
- b) training
- c) seminar
- d) none of the above

81. To assess the existing situation of a plant, good energy saving strategy plan starts with...

a) energy audit

b) training

c) seminar

d) none of the above

82. The factor that reflects the risk of the project while evaluating the present value of the expected future cash flow is _____

- a) Life of the project
- b) Discount rate
- c) Capital cost
- d) All the above

82. The factor that reflects the risk of the project while evaluating the present value of the expected future cash flow is _____

a) Life of the project

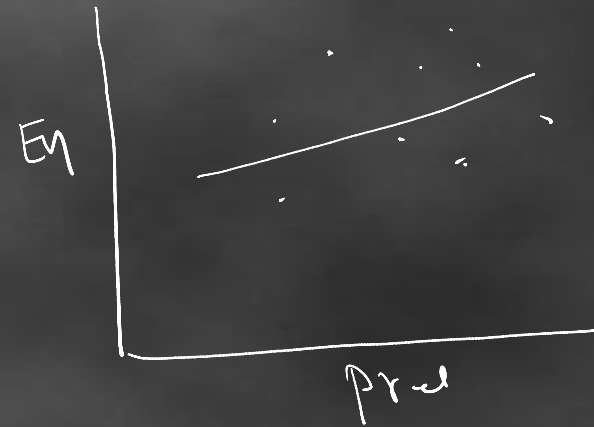
b) Discount rate

c) Capital cost

d) All the above

83. Poor scattering on trend line of production Vs Energy consumption indicates ____.

- a) poor level of control
- b) good level of control
- c) both the above
- d) none of above



83. Poor scattering on trend line of production Vs Energy consumption indicates ____.

a) poor level of control

b) good level of control

c) both the above

d) none of above

84. Installing larger diameter pipe in pumping system results in reduction in-----

- a) static head
- b) frictional head
- c) both a and b
- d) neither a nor b

$$h_f = \frac{4fLv^2}{2gD}$$

84. Installing larger diameter pipe in pumping system results in reduction in-----

- a) static head
- b) frictional head**
- c) both a and b
- d) neither a nor b

85. Cogeneration is the simultaneous generation of -----
-----.

- a) heat and power ✓
- b) steam and condensate
- c) Mechanical Energy and power
- d) All the above

85. Cogeneration is the simultaneous generation of -----
-----.

- a) heat and power
- b) steam and condensate
- c) Mechanical Energy and power
- d) All the above

86. Name the predominant loss component for furnace oil fired boiler.

Fo →

- a) losses due to radiation and convention
- b) loss due to hydrogen in fuel
- c) loss due to dry flue gas ✓
- d) loss due to moisture in fuel

86. Name the predominant loss component for furnace oil fired boiler.

a) losses due to radiation and convection

b) loss due to hydrogen in fuel

c) loss due to dry flue gas

d) loss due to moisture in fuel

87. The factors affecting Waste Heat Recovery from exhaust flue gases of DG set are:

a) Temperature of exhaust flue gases after turbo charger ✓

b) Back pressure ✓ on the DG set

c) DG set loading ✓

d) all of the above ✓

87. The factors affecting Waste Heat Recovery from exhaust flue gases of DG set are:

- a) Temperature of exhaust flue gases after turbo charger
- b) Back pressure on the DG set
- c) DG set loading
- d) all of the above**

88. The ISO standard for Energy Management System is

a) ISO 9001 → quality management

b) ISO 50001 → Energy management

c) ISO 14001 → Environment "

d) none of the above

88. The ISO standard for Energy Management System is

a) ISO 9001

b) ISO 50001

c) ISO 14001

d) none of the above

89. The Government of India levies Clean Energy Cess on which of the following

a) electricity

b) coal ✓

c) Diesel

d) biodiesel

89. The Government of India levies Clean Energy Cess on which of the following

a) electricity

b) coal

c) Diesel

d) biodiesel

90. Which of the following parameters is not considered for external Bench Marking?

- a) scale of operation ✓
- b) energy pricing
- c) raw materials and product quality ✓
- d) vintage of technology ✓

90. Which of the following parameters is not considered for external Bench Marking?

a) scale of operation

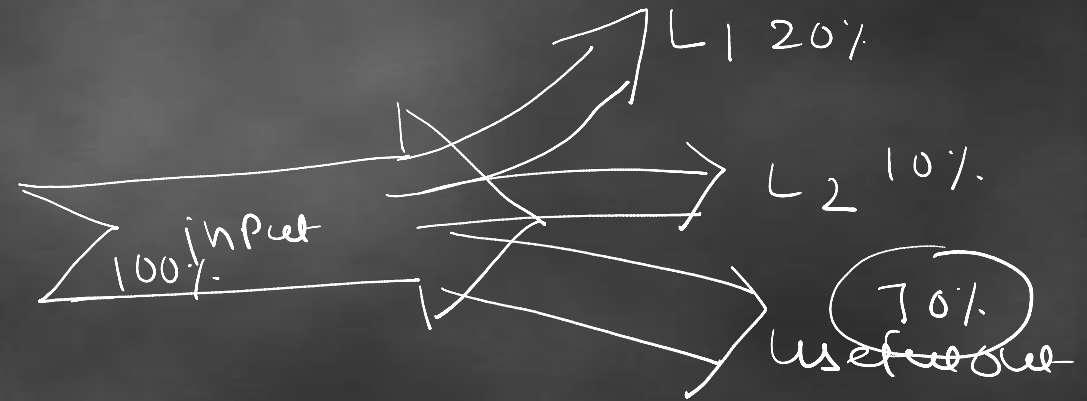
b) energy pricing

c) raw materials and product quality

d) vintage of technology

91. Sankey diagram shows in graphics the _____

- a) Energy input ✓
- b) Energy output ✓
- c) Energy balance ✓
- d) All of the above ✓



91. Sankey diagram shows in graphics the _____

- a) Energy input
- b) Energy output
- c) Energy balance
- d) All of the above**

92. The Kyoto protocol came into force in _____

a) 2005 ✓

b) 2006

c) 2008

d) 2010

92. The Kyoto protocol came into force in _____

a) 2005

b) 2006

c) 2008

d) 2010

93. Energy Audit provide us with tools to benchmark our consumption against

a) Best figures

b) Average figures

c) National figures

d) Both best figures and national figures ✓

93. Energy Audit provide us with tools to benchmark our consumption against

a) Best figures

b) Average figures

c) National figures

d) Both best figures and national figures

94. salient feature of Energy Conservation Act 2001 is

- ✓ a) Establishment of bureau of Energy efficiency
- b) To prescribe energy conservation building codes for all building
- c) To specify energy consumption standard
- d) Both bureau of energy efficiency and energy conservation building codes.

94. salient feature of Energy Conservation Act 2001 is

a) Establishment of bureau of Energy efficiency

b) To prescribe energy conservation building codes for all building

c) To specify energy consumption standard

d) Both bureau of energy efficiency and energy conservation building codes.

95. Which of the following is not a conservation of energy?

- a) Reduction of wastage of energy ✓
- b) Reduction of percentage of energy consumption ✓
- c) Reduction of energy consumption ✓
- d) Inter-fuel substitution ✗

95. Which of the following is not a conservation of energy?

- a) Reduction of wastage of energy
- b) Reduction of percentage of energy consumption
- c) Reduction of energy consumption
- d) Inter-fuel substitution**

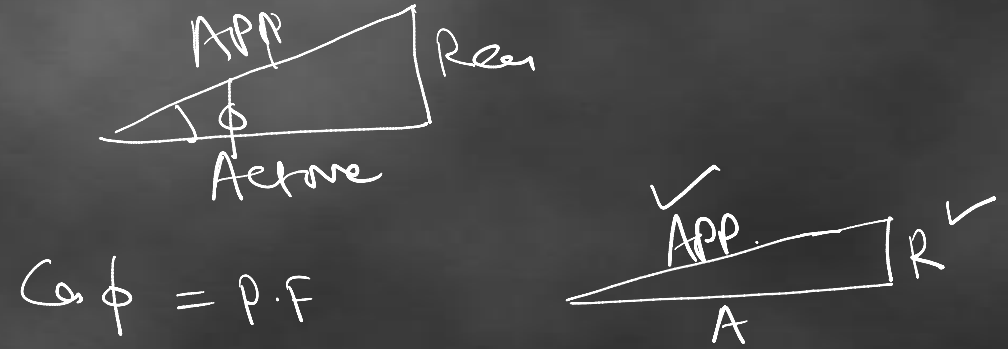
96. Improvement of power factor helps in reduction of _____

a) Reactive power

b) Apparent power

c) Active power

d) Both reactive power and apparent power



96. Improvement of power factor helps in reduction of _____

a) Reactive power

b) Apparent power

c) Active power

d) Both reactive power and apparent power

97. Which of these is non-price method of energy conservation?

a) Direct quantity rationing

b) VAT

c) Fuel taxes

d) Energy audit

97. Which of these is non-price method of energy conservation?

a) Direct quantity rationing

b) VAT

c) Fuel taxes

d) Energy audit

98. Which of these is the economic character of inter fuel substitution?

- a) Labour intensive
- b) Capital intensive
- c) Technology intensive ✓
- d) Service intensive

98. Which of these is the economic character of inter fuel substitution?

- a) Labour intensive
- b) Capital intensive
- c) **Technology intensive**
- d) Service intensive

99. In a furnace, the lower the exhaust temperature the _____ is the furnace efficiency

- a) lower
- b) moderate
- c) higher ✓
- d) None of the above

Major Loss \rightarrow Drifts
 \downarrow

99. In a furnace, the lower the exhaust temperature the _____ is the furnace efficiency

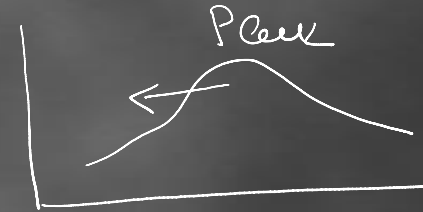
a) lower

b) moderate

c) higher

d) None of the above

100. Which of the following is termed as "time of day" scheme?



- a) Offering cheap power during a specific off-peak period ✓
- b) offering cheap power during peak load period ✗
- c) offering cheap power at night ✗
- d) offering cheap power at day ✗

100. Which of the following is termed as "time of day" scheme?

a) Offering cheap power during a specific off-peak period

b) offering cheap power during peak load period

c) offering cheap power at night

d) offering cheap power at day

Thank
you

