

FIRST CLASS TEST (2019)

Course:	B.TECH	Semester:	7th
Branch:	Mechanical	Subject Name:	Energy Conservation & Management
Date:	09/09/2019		
Day:	Monday	Subject Code:	ME0709
Time:	12:00 To 12:40 PM	Max. Marks:	20 Marks

Q-1 Multi Choice Questions (5)

(1) "The judicious and effective use of energy to maximize profits and enhance competitive positions". This can be the definition of:

- a) Energy conservation b) Energy management c) Energy policy d) Energy Audit

(2) The tool used for performance assessment and logical evaluation of avenues for improvement in Energy management and audit is:

- a) Fuel substitution, b) Monitoring and verification c) Energy pricing d) Bench marking

(3) The Total energy consumption divided by total population at the same time is called as:

- (a) Energy intensity (b) Energy security (c) Per capita energy consumption (d) Per capita energy wastage

(4) Energy from the earth root is call as:

- (a) Magnetic Energy (b) Wave energy (c) Geothermal Energy (d) Chemical Energy

(5) The ratio of current year's production to the reference year's production is called as:

- (a) Demand factor (b) Production factor (c) Utilization factor (d) Load factor

Q – 2 Explain how a CUSUM chart and explain it with an example. (5)

OR

Q- 2 Explain in detail about Bureau of energy efficiency (BEE). (5)

Q- 3 Explain in detail salient feature of Electricity act 2003. (5)

OR

Q-3 Define any Two Terms in detail (5)

(a) Return on investment (b) Net Present Value (c) Rotating on investment (d) Role of Energy Service Company(ESCO)

Q-4 Investment for an energy proposal is Rs.10.00 lakhs. Annual savings for the first three years is 2,00,000, 2,50,000 & 4,00,000. Considering cost of capital as 10%, what is the net present value of the proposal? (5)