Hall Ticket No Question Paper Code: AEE503



## INSTITUTE OF AERONAUTICAL ENGINEERING

(Autonomous)

B.Tech VI Semester End Examinations (Regular), November – 2020

Regulation: IARE-R16

## ENERGY AUDIT AND MANAGEMENT

Time: 2 Hours (EEE) Max Marks: 70

Answer any Four Questions from Part A Answer any Five Questions from Part B		
PART - A		
1.	What are the significant aspects of knowing the energy costs?	[5M]
2.	Give details of past and present energy scenario.	[5M]
3.	Explain various requirements to perform energy action plan with an suitable example.	[5M]
4.	What is energy efficiency? Explain its first and second laws of energies.	[5M]
5.	Explain the essential elements of monitoring system.	[5M]
6.	Write briefly about the following: i) Energy index ii) Pie charts	[5M]
7.	Explain the energy balance diagram.	[5M]
8.	Write a short note on i) Contact thermometer ii)Infrared thermometer	[5M]
$\mathbf{PART}-\mathbf{B}$		
9.	What is energy management? Illustrate general principles of energy management.	[10M]
10.	Explain the how the energy audit process is performed in industries.	[10M]
11.	What is the importance and content involved in plant energy study report? Explain inventory of energy and rejections.	inputs [ <b>10M</b> ]
12.	Explain about energy audit report. What are the main aspects of audit report?	[10M]
13.	An energy audit has to be carried out on an industry. As an energy manager, how would you conduct the and present a report.	e audit [ <b>10M</b> ]
14.	Why do you motivate employees? Discuss in detail, how employees actively participate in the process of audit for the development of organization.	energy [ <b>10M</b> ]
15.	Why energy flow is depended on process flow? Explain the procedure for drawing process flow chart.	[10M]
16.	Write about Management Information System. List the various facilities provided as an energy system.	[10M]
17.	What are the desired quantities to be measured in the process of energy audit? Write its importance energy audit.	in the [ <b>10M</b> ]
18.	Explain in detail about WPitot tube. Write about manometer.	[10M]