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Scheme - E  
Sample Question Paper

Course Name : Automobile Engineering Group  
Course Code : AE  
Semester : Fourth

12099

Subject Title : Heat Power Engineering

Max Marks : 100

Time : 3 Hour

Instructions:

1. All questions are compulsory.
2. Figures to the right indicate full marks.
3. Use of non-programmable calculator is permissible.
4. Illustrate your answer with neat sketches wherever necessary.
5. Preferably, write the answers in sequential order.
6. Use steam table wherever necessary.

Q.1 A) Attempt Any SIX Of the following:

12 Marks

- a) State Zeroth Law of Thermodynamics.
- b) Define the term Free air delivery (F.A.D).
- c) Enlist four non-conventional energy sources.
- d) Enlist four boiler mountings & four accessories provided on the boiler.
- e) State necessities of intercooling in air compressor.
- f) Define L.C.V of fuel and it's unit.
- g) State four limitations of solar energy.
- h) Define Fourier's Law.

B) Attempt any TWO of the following:

08 Marks

- a) Point out parameters involved in the site selection of thermal power plant.
- b) Classify gas turbine on the basis of i) Cycle of operation ii) Thermodynamic cycle iii) Applications iv) fuels used.
- c) Calculate the heat supplied to convert steam at 10 bar with dryness fraction 0.8 into steam at same constant pressure until it becomes dry saturated.  
At 10 bar,  $h_f = 762.6 \text{ kJ/kg}$   $h_{g2} = 2013.6 \text{ kJ/kg}$

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