# Elements of Mechanical Engineering

Time 3 brs.

П

Marks 100

Note: 1. Answer any FIVE full questions, choosing ONE full question from each module.

2. Use of steam tables is permitted.

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100	 100	100	1000	No.	-81

a. Differentiate renewable energy sources with non-renewable sources.

b. Briefly explain Global Warming and Ozone depletion.

c. Define Zeroth, 1" law, 2<sup>rd</sup> law and 3" law of thermodynamics.

(04 Marks)

#### OR

- 2 a. Define
  - (i) Internal energy
  - (iii) Enshalpy
  - (iii) Entropy
  - b. Explain the formation of steam

(06 Marks) (06 Marks) (08 Marks)

Explain briefly the application of hydel, wind, nuclear and bio-fuels.

#### Module-2

3 a Explain the working of Lancashire boiler with neat sketch. (10 Marks)
b With neat sketch, explain working of Francis turbine (10 Marks)

#### OF

4 a List and explain functions of any four boiler mountings.

b Explain the working of centrifugal pump with neat sketch

c Explain the phenomenous of priming and cavitation in pump. (06 Marks)

#### Module-3

- 5 a Explain the working of four-stroke diesel engine with neat sketch. (10 Marks)
  - b. A single cylinder two stroke petrol engine develops 7.5 KW at 2500 rpm. The mean effective pressure on the piston is 8 bar and mechanical efficiency is 80%. Calculate the diameter and stroke length of the cylinder if stroke to bore ratio is 1.5, also calculate the foel community rate if the brake thermal efficiency is 28%. The calorifical value of the fuel used is 43,900 kJ/kg.

#### OR

- 6 a Define
  - (i) Refrigerating effect
  - (iii) Tonn of refrigeration
  - (iii) fee making capacity
  - (ix) Coefficient of performance
  - b. With a neat sketch, explain the working of vapour compression refrigeration.

c 10 Marks

(10 Marks)

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Huangqi Zhang

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