

**First/Second Semester B.E. Degree Examination, Aug./Sept.2020**  
**Elements of Mechanical Engineering**

Time: 3 hrs.

Max. Marks: 100

*Note: 1. Answer any FIVE full questions, choosing ONE full question from each module.  
 2. Use of steam tables is permitted.*

**Module-1**

- |   |   |            |
|---|---|------------|
| 1 | a. Differentiate renewable energy sources with non-renewable sources.                                 | (04 Marks) |
|   | b. Briefly explain Global Warming and Ozone depletion.  | (08 Marks) |
|   | c. Define Zeroth, 1 <sup>st</sup> law, 2 <sup>nd</sup> law and 3 <sup>rd</sup> law of thermodynamics. | (08 Marks) |

**OR**

- |   |   |            |
|---|---|------------|
| 2 | a. Define   |            |
|   | (i) Internal energy   |            |
|   | (ii) Enthalpy   |            |
|   | (iii) Entropy   | (06 Marks) |
|   | b. Explain the formation of steam.  | (06 Marks) |
|   | c. Explain briefly the application of hydel, wind, nuclear and bio-fuels. | (08 Marks) |

**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) |

**OR**

- |   |  |            |
|---|--|------------|
| 4 | a. List and explain functions of any four boiler mountings.  | (06 Marks) |
|   | b. Explain the working of centrifugal pump with neat sketch. | (08 Marks) |
|   | c. Explain the phenomenon 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 fuel consumption rate if the brake thermal efficiency is 28%. The calorific value of the fuel used is 43,900 KJ/kg. | (10 Marks) |

**OR**

- |   |   |            |
|---|---|------------|
| 6 | a. Define   |            |
|   | (i) Refrigerating effect  |            |
|   | (ii) Tonn of refrigeration  |            |
|   | (iii) Ice making capacity   |            |
|   | (iv) Coefficient of performance   |            |
|   | (v) Unit of refrigeration   | (10 Marks) |
|   | b. With a neat sketch, explain the working of vapour compression refrigeration. | (10 Marks) |

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