

**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 hydro, 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) |

# Eme011 Solved Paper

**Karin Nielsen-Saines**



**Eme011 Solved Paper:**

HC 469 - Science in Emergencies: UK Lessons from Ebola Great Britain: Parliament: House of Commons: Science and Technology Committee, Great Britain. Parliament. House of Commons. Select Committee on Science and Technology, 2016

Ebola is a rare and deadly disease Since late 2013 West Africa has experienced the largest Ebola outbreak ever recorded We pay tribute to all those who worked tirelessly to tackle this outbreak some of whom gave evidence to this inquiry and many of whom continue working to avert similar crises in the future We also commend the Government on its leading contribution to the fight against Ebola and the financial and personnel commitments that it made from constructing and staffing Ebola treatment centres in Sierra Leone to deploying troops helicopters aircrew and an aviation support ship to provide much needed logistical support Examples of UK successes in tackling Ebola however must not allow complacency to set in Despite this impressive deployment of resources to combat Ebola in Sierra Leone the UK response like the international response was undermined by systemic delay The biggest lesson that must be learnt from this outbreak of Ebola is that even minor delays in responding cost lives Yet delays were evident at every stage of our response from escalating Public Health England's disease surveillance data to those with the capacity to act to convening a Scientific Advisory Group for Emergencies which failed to be established until October 2014 three months after Cobra the Government's emergency response committee first met In the absence of established mechanisms ad hoc approaches emerged to fill the gaps Inevitably these were not as effective or as targeted as they should have been

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