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SRINIX COLLEGE OF ENGINEERING

1ST INTERNAL EXAMINATION-2021-22

Subject-BME

Semester-1ST

Branch-SEC-A

Full Mark-60

Time-2.30Hrs

ANSWER ALL QUESTIONS (PART-A)

[2X10=20]

1. Define force and how it is measure?
2. Write the expression for COP of a heat pump and a refrigerator.
3. Define dryness fraction.
4. Define Enthalpy.
5. What is the purpose of braking system?
6. What do you mean by Zeroth law of thermodynamics?
7. Explain Top dead centre and Inner Dead centre.
8. State Second law of Thermodynamics?
9. Define PMM of first kind.
10. Write the expression for efficiency of the carnot engine?

ANSWER ANY FIVE QUESTIONS (PART-B)

[5X4=20]

1. What is the purpose of braking system?
2. Explain clutch system.
3. Explain 4 stroke cycle engine.
4. What the basic difference between Petrol engine and Diesel engine?
5. Define Refrigeration?
6. Define coupling?

ANSWER ANY Two QUESTION (PART-C)

[10X2=20]

1. A Carnot engine works between 300° C and 30° C. The heat supplied to the engine is 20 KJ. Determine 1. efficiency. 2. work output 3. Heat rejection
2. (i) Classify the Working principle of Four Stroke Spark Ignition Engine?
(ii) Briefly describe the difference of CI & SI
3. Explain Steam power plant with neat sketch diagram

××ALL THE BEST××