

MODEL EXAMINATION

Department : Mechanical Engineering

Year/Sem : II/III

Subject Name: Thermal Engineering-I

Subject Code : 4020340

Date :

Marks : 100Marks

- (Note: (i) Answer all question in PART-A
(ii) Answer division (A) or (B) of each question in PART-B
(iii) Each question carries 3 marks in PART-A and 14 marks in PART-B)

PART-A

1. What is the difference between isothermal process and adiabatic process
2. State the second law of thermodynamics
3. Draw the P-V and T-S diagram of otto cycle and diesel cycle and indicate the processes involved
4. Write down the general equation for (i) Turbine (ii) Condenser
5. Comparison between petrol and diesel engine.
6. Write short notes on (i) Connecting rod (ii) Piston (iii) Crank shaft
7. Determine the stoichiometric air required for complete combustion of 1 kg of coal whose analysis by mass is given below Carbon-78%; Hydrogen=3%; Oxygen- 3%; Sulphur -1%; Ash-10%; Moisture-5%
8. Define i) Mechanical efficiency ii) Brake thermal efficiency iii) Relative efficiency
9. Compare room air conditioner and central plant air conditioner
10. Differentiate vapour compression and vapour absorption refrigeration system

PART-B

11. A) 0.5 kg of certain gas expands adiabatically. The initial pressure and temperature are 5 bar and 185°C respectively. The final pressure is 1.15 bar and temp falls by 165°C during the expansion. If the gas does 53 KJ of work, determine the two principle specific heat capacity of the gas and constant of the gas. (OR)
B) A gas at a pressure of 700 KN/m^2 and expands from a volume of 0.075 m^3 to 0.36 m^3 according to the law $PV^{1.2} = C$. Determine (i) Final temperature ii) Workdone iii) Heat transferred. Take $\gamma = \frac{C_p}{C_v} = 1.4$ and $R = 0.29\text{ KJ/Kg.K}$.
12. A) Derive an expression for air standard efficiency of otto cycle in terms of temperature. (OR)
B) Brief about the engineering applications of study flow energy equation
13. A) i) Briefly explain with neat sketch 4 stroke petrol engine

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