

www.FiretRanker.com

3

Determine equivalent evaporation/kg of fuel and boiler efficiency of a boiler having

Calculate condition for maximum discharge. What do you understand by boiler draught?

Carried my dry Commen

3



140408]

3 drop. Determine cross section of exit and throat occurs in divergent section at 12% as friction

Dry saturated steam at pressure of 6 bar flows and exit pressure as 1.6 bar loss due to friction through converdiver nozzle at rate of 4.5 kg/sec

fuel of $Cv = 3.5 \times 10^4$ kj/kg is consumed. at 100°C and during one hour test 5×103 kg of 4×104 kg/hr. Feed water enters economizer steam generation at 3 mpa, 350°C at a rate

B Attempt any two questions :

Draw P-V and T-S diagram for a Rankine cycle. Rankine cycle. of cycle. Explain how it is different from modified Derive expression for work done and efficiency

[Contd...

140408]

[19825]

⋑ Attempt any two questions

10×2=20

 Θ Enumerate effect of pressure and temp. on Rankine cycle.

Draw velocity diagram for velocity compounded cycle efficiency? What is bleeding and how does it affects

3

Define steam turbines and classify them. Explain turbine and find equation for maximum work done and efficiency.

www.FirstRanke.

Attempt any two questions

the term compounding and its types in brief.

Đ

10×2=20

of open cycle gas turbine. Explain in brief methods of improving efficiency

Explain Brayton cycle and obtain expression for efficiency in terms of pressure and temp ratio.

compare working of Ram jet with Pulse jet Explain working of jet propulsion system and

3