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a) Condenser work & Boiler work b) Boiler work & Pump work	The net work done in a Rankine Cycle is the difference of?	d) Induced Steam draught system	c) Forced draught system	b) Balanced draught system	a) Natural draught system	Which type of draught system is used in the locomotives?	d) Babcock and Wilcox boiler	<u>c</u>	d) Nitrogen	c) Methane	b) Hydrogen	a) Oxygen	In presence of which gas is the fuel burnt to generate energy in form of heat?	d) None of these	c) O ₂ content.	b) CO ₂ content.	a) CO content,	gas.	Incomplete combustion of fuel in the furnace is judged by highof the flue	Choose the correct answer.		Instructions to the Students: 1. Draw neat sketches wherever necessary. 2. Use of Steam table / Molier chart is permitted.	Max Marks: 20 Date: 24/09/2019 Duration:- 1	Subject Code: BTMEC502	Subject Name: Applied Thermodynamics-I	Course: T.Y. B. Tech in Mechanical Engineering Sem: V	Mid Semester Examination - Sept. 2019	MGM's, Jawaharlal Nehru Engineering College, Aurangabad	DA. BABASAHEB AMBERNAK IECHNOLOGICAL UNIVERSITY, LONERE
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*** End ***	a) The cycle efficiency b) Work ratio	A steam power plant works between a boiler pressure of 4 MPa and 300 °C and condenser pressure of 50 kPa. Assuming an ideal Rankine cycle, determine:	a) A:F ratio b) % analysis of wet products on mass basis.	A solid fuel consist of 80% C and 20% H ₂ by mass. If 15% excess all is supplied, determine:	-	steam on efficiency of Rankine cycle.	Analyze the effect of boiler pressure, condenser pressure and superheating the	_	Calculate atomic weights of CH ₄ , CO ₂ , CO, H ₂ O, N ₂ and SO ₂	Solve Any Two of the following.		d) none of the mentioned	c) two isothermal processes and two constant pressure processes	b) two isentropic processes and two constant pressure processes	a) two isentropic processes and two constant volume processes	Rankine cycle comprises of	d) Condenser work & Pump work	c) Turbine Work & Pump work
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