## Q.P. Code: 24797

	[Time: 3 Hours]	[ Marks: 80]
	Please check whether you have got the right question paper.  N.B:  1. Answer any four questions out of remaining six questions.  2. Illustrate your answer with neat sketch if required.  3. Assume suitable data if required mention the same.	
Q.1.	<ul><li>a) Explain organic Rankine cycle &amp; its advantages.</li><li>b) Explain Topping &amp; Bottoming cycle with examples.</li></ul>	10 10
Q.2.	<ul><li>a) Write a short note on sizing of waste heat boilers.</li><li>b) Compare unified combined cycle with fined combined cycle.</li><li>c) Explain financial consideration in waste neat recovery systems.</li></ul>	05 10 05
Q.3.	<ul><li>a) Explain in brief sources of waste heat recovery in Diesel engine.</li><li>b) Classify different waste heat boilers</li></ul>	10 10
Q.4.	<ul><li>a) Explain cost of co generation</li><li>b) Describe selection criteria of waste heat recovery technologies.</li></ul>	10 10
Q.5.	<ul><li>a) Explain in brief Tri-generation.</li><li>b) Write principles of thermodynamics and state second law of thermodynamics.</li></ul>	10 10
Q.6.	<ul><li>a) Explain different part load characteristics selection of co generation technologies.</li><li>b) Elaborate cogeneration applications in various process industries.</li></ul>	10 10

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