

www.FirstRanker.com

Code No: J2101/R16

## M. Tech. II Semester Regular Examinations, May-2017 FUELS, COMBUSTION AND ENVIRONMENT

**Thermal Engineering (21)** 

Time:	3	Hours
-------	---	-------

Max. Marks: 60

Answer any FIVE Questions All Questions Carry Equal Marks	_
<ol> <li>a Explain about Conventional and Unconventional Solid fuels.</li> <li>b Discuss in detail about gaseous fuels?</li> </ol>	6M 6M
<ul><li>2. a What do you understand by "dew point of products"?</li><li>b Explain in detail about General oxidation behavior of HC's.</li></ul>	6M 6M
<ul><li>3. a What is Enthalpy of formation?</li><li>b Discuss about Adiabatic flame Temperature in combustion analysis.</li></ul>	6M 6M
<ul><li>4. a What do you understand by the word "Turbulent Flame"</li><li>b What are the factors affecting the burning velocity.</li></ul>	4M 8M
5. What are the effects of Air pollution on Environment? Explain.	12 M
6. With a neat sketch explain in detail about Fluidized Bed Systems.	12 M
7. What do you understand by Equilibrium composition of gaseous mixtures? Explain.	12 M
8. What do you understand by complex reactions and chain reactions? Explain.	12 M