EN 610 Hydrogen Energy

Quiz 1

Ma	ax Marks : 10	Duration: 45 minutes	Time: 11:00-11:45 am
1. 7	Answer the following	g questions :	
a	. Which method of feedstock? Why?	hydrogen production is use	d for heavy residual oils as
b	. In steam reformin methane, draw the	g process if higher hydrocar process flow diagram.	bons are present along with
C.	What causes deact production and how	ivation of catalyst in a catalyti w that can be prevented?	ic process used for hydrogen [1]
d.	What is the role of production	f steam in non-catalytic POX	process used for hydrogen [1]
e.	memou is effective	ence between biomass gasific for hydrogen production? anced methods of Se	
f.	What are the param production can be d	neters on the basis of which the	ne technology for hydrogen [1]
g.	Compare the three r	nethods of hydrogen production	on SMR, POx and ATR [2]
h.	What is the role of bATR?	ourner and why the design of s	uitable burner important in
i.	If one kg of methan complete conversion in the process (in kg	ne reacts with steam in an Si of methane, how much will	MR reaction. Considering be the hydrogen produced

[1]

in the process (in kg)?