

**NOIDA INSTITUTE OF ENGINEERING AND TECHNOLOGY  
GREATER NOIDA**

Department of Mechanical Engineering  
B. Tech (I.T.+CS) & M.Tech(Int. CS) - 7<sup>th</sup> Semester  
KOE 074- Renewable Energy resources  
Unit- 3 Geothermal Energy  
Session – (2022-23)

**Assignment- 3 (Date of Submission: 029/09/2022)**

Questions NO	Question	CO	Bloom Level
Question 1	What is geothermal energy? Give the classification of geothermal energy resources	3	K2
Question 2	What is meant by dry system, wet system and hot water geothermal?	3	K2
Question 3	Explain geothermal power plant. Write the application of geothermal energy.	3	K2
Question 4	Write the difference between a geothermal power plant and thermal power plant.	3	K2
Question 5	Write the short note on magneto hydrodynamics (MHD)	3	K2
Question 6	Write the short notes on the following 1.Open cycle MHD System 2.Close cycle MHD system	3	K2
Question 7	Write a short note on Practical problems associated with MHD generator	3	K2
Question 8	What do you understand by fuel cell? How fuel cells are classified? Describe an H <sub>2</sub> O <sub>2</sub> Fuel cell with sketch showing reactions	3	K2
Question 9	Explain the difference between a fuel cell and battery.	3	K2
Question 10	Show that a hydrogen- oxygen fuel cell has a maximum efficiency of 83%	3	K2