

Total No. of Questions : 8]

[Total No. of Printed Pages : 2

Roll No

MMTP-302(B)**M.E./M.Tech., III Semester**

Examination, December 2017

Non Conventional Energy Sources**(Elective-II)****Time : Three Hours****Maximum Marks: 70**

- Note:** i) Attempt any five questions.
ii) All questions carry equal marks.

1. a) Write a detailed note on conventional sources of Commercial Energy. 7
b) Differentiate between Direct and Indirect applications of solar energy. 7
2. a) State types of Solar radiation. 7
b) State the working principle of geothermal energy system. 7
3. a) Draw a component layout of Biochemical energy system. 7
b) Explain briefly the fuel cells. 7
4. a) Explain working of an open cycle and Magneto-Hydro Dynamic (MHD). 7
b) Explain briefly Tidal and Wave energy. 7

MMTP-302(B)

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549

[2]

5. a) What do you mean by Wind energy? 7
b) Write down the short note on Wind mills. 7
6. a) What is Michaelis-Menten equation? 7
b) Explain the fundamentals of fission and fusion technology. 7
7. a) Differentiate between Non-conventional and Conventional. 7
b) Write down the short note of Bio-gas generation. 7
8. Write short note on any three of the following : 14
a) M.H.D. Power
b) Ocean thermal energy
c) Monod equation
d) Photo-voltaic and thermoelectric conversion

MMTP-302(B)

550