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Total No. of Questions :8)

[Total No. of Printed Pages :2

Roll No

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

Examination, December 2016

Non Conventional Energy Sources (Elective-II) Time: Three Hours

Maximum Marks: 70

Attempt any five questions. Note: i)

- ii) All questions carry equal marks.
- iii) Draw neat diagrams wherever required.
- Give conventional sources of commercial energy in Indian context.
 - How one can estimate the time for which conventional energy sources will last? Discuss.
- What do you mean by Solar Concentrator? Discuss its working principle and applications in India.
 - How thermal storage of solar energy can be done? Discuss various ways.
- State classification of wind mills. State their stability in fields.
 - Discuss the working principle of OTEC.
- Compare various bioconversion processes with benefits and limitations.
 - What do you mean by energy plantation? Is it economic and environmental friendly. Comment.

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Define the terms: nuclear fission and fusion. Write prospects and limitations of nuclear energy in Indian http://www.rgpvonline.com context.

What are fast reactor and breeder reactor? Discuss any one reactor.

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- Define Geothermal Energy. State its classification, advantages and disadvantages.
 - Explain MHD convertor with suitable diagram.
- Compare various types of fuel cells in tabulated form.
 - Discuss microorganism growth requirements.
- Write short note on following (any two):
 - Wave Energy
 - Chemicals of Life Enzymes
 - Monod Equation

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