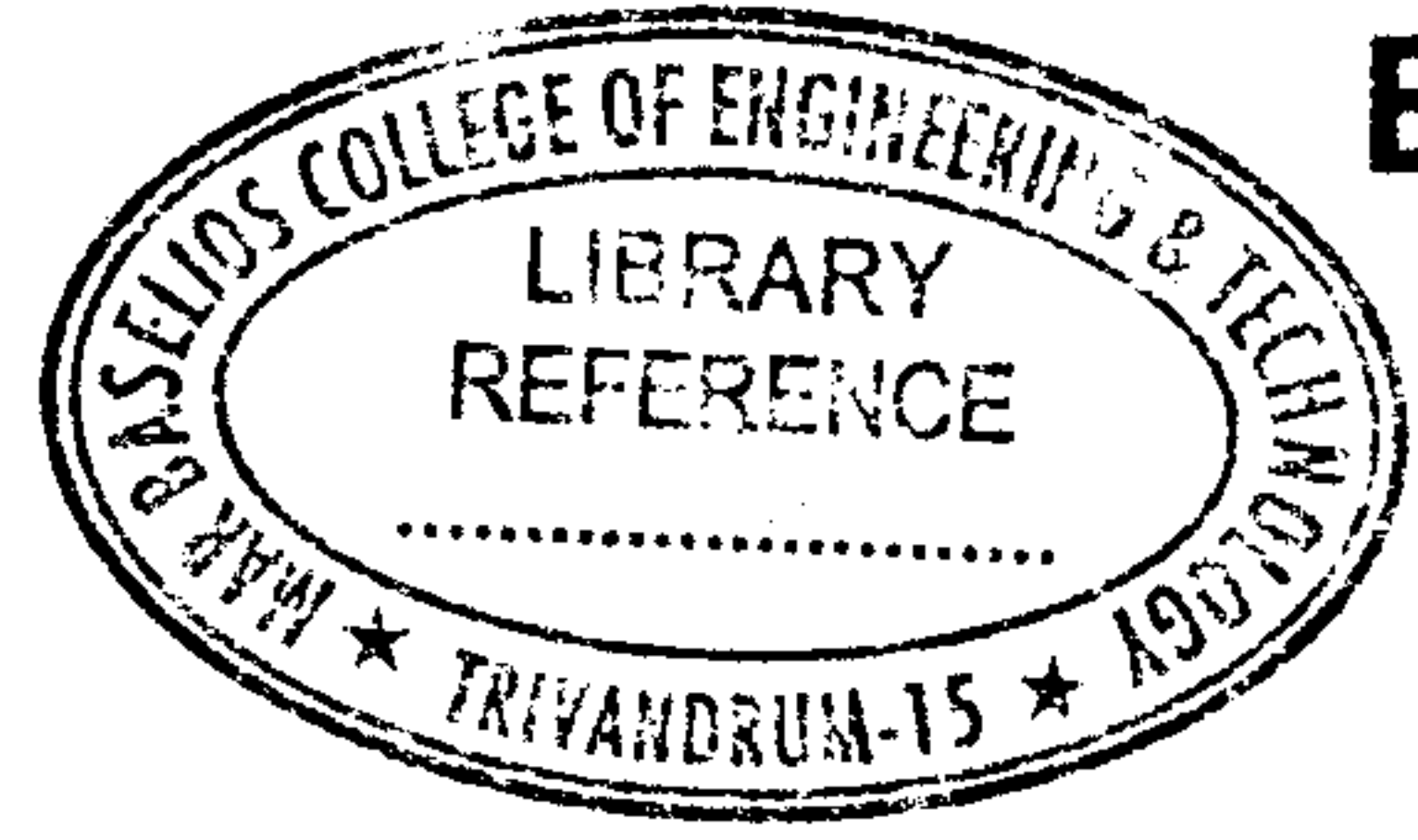




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**B – 5531**

Reg. No. : .....

Name : .....

**Sixth Semester B.Tech. Degree Examination, May 2017  
(2008 Scheme)**

**08.606.2 : NEW ENERGY SYSTEMS (MPU)**

Time : 3 Hours

Max. Marks : 100

**PART – A**

Answer **all** questions. **Each** question in Part – **A** carries **4** marks.

1. What is the important factor in thermoelectric material ?
2. What are the main components of a fuel cell ?
3. What are the major advantages and disadvantages of solar cells ?
4. What is fusion energy ?
5. What are the advantages of solar flat plate collector over other solar collectors ?
6. What are the types of primary thermal energy storage systems ?
7. Write a short note on tidal power.
8. What are the advantages with wind energy ?
9. What are the classifications of geothermal fields ?
10. What is biomass ?

**PART – B**

Answer **one** question from **each** Module in Part – **B**. **Each** question in Part – **B** carries **20** marks.

**Module – I**

11. Describe the main components of a typical magneto hydro dynamics generator and also describe the flow sequence.

OR

P.T.O.



12. Explain with neat sketch, the working of redox cell. Also state the merits and demerits of it.

**Module – II**

13. Explain about the fusion fuels and its reactions.

OR

14. How are the solar thermal technologies for power generation characterized ?

**Module – III**

15. Explain with neat sketch, the working of biogas plant.

OR

16. How hydrogen is produced today ? Summarize various applications of hydrogen.
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