

**B. TECH. (CBCS - 2014 COURSE) SEM -VIII (ELECTRICAL  
ENGG.) : SUMMER - 2018**

**SUBJECT: ELECTIVE-IV ENERGY MANAGEMENT**

Day: **Saturday**  
Date: **09/06/2018**

**S-2018-4679**

Time: **02.30 PM TO 05.30 PM**  
Max. Marks: 60

**N.B:**

- 1) All questions are **COMPUSLORY**.
- 2) Figures to the right indicate **FULL** marks.
- 3) Assume suitable data if necessary.

**Q.1** Elucidate the term energy management. **(10)**

**OR**

**Q.1** Elucidate the term energy security and energy reliability. **(10)**

**Q.2** What are various components of energy audit? **(10)**

**OR**

**Q.2** What are various outcomes of energy audit? **(10)**

**Q.3** Illuminate the term time value of money. **(10)**

**OR**

**Q.3** Explicate the term net present value related to energy management. **(10)**

**Q.4** Enlighten various factors impeding efficiency of a furnace. How can it be augmented? **(10)**

**OR**

**Q.4** Enlighten various factors hampering efficiency of heat exchangers. What are various ways to enrich it? **(10)**

**Q.5** Explicate supply side management. **(10)**

**OR**

**Q.5** Give details of demand side management. **(10)**

**Q.6** What are various waste heat recovery devices? **(10)**

**OR**

**Q.6** Write a note on prototype carbon funds. **(10)**

\* \* \* \* \*