Reg. No. :						

Question Paper Code: 11161

M.E./M.Tech. DEGREE EXAMINATION, APRIL/MAY 2019.

Elective

Power Electronics and Drives

PS 5071 — DISTRIBUTED GENERATION AND MICROGRID

(Common to M.E. Power Systems Engineering)

(Regulation 2017)

Time: Three hours

Maximum: 100 marks

Answer ALL questions.

PART A —
$$(10 \times 2 = 20 \text{ marks})$$

- 1. How will you classify the energy resources?
- 2. List the advantages of renewable energy source.
- 3. What are the challenges associated with distributed generating system?
- 4. What is grid interconnection?
- 5. What are the issues met during islanding mode.
- 6. Define THD for current.
- 7. What is integrated AC/DC micro grid?
- 8. List the drivers used in micro grid.
- 9. What is the need for smart grid?
- 10. Compare conventional grid with smart grid.

PART B —
$$(5 \times 13 = 65 \text{ marks})$$

11. (a) Explain in detail on the various distributed generation system in India.

Or

(b) Explain with a neat block diagram about the operation of tidal power station.

