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Question Paper Code: 55017

Ph.D COURSE WORK EXAMINATION, MAY 2018

Elective

Course Work

15PPE517 - NANOMATERIALS AND ENERGY SYSTEMS

(Regulation 2015)

Duration: Three hours

Maximum: 100 Marks

Answer ALL Questions

PART A - (5 x 20 = 100 Marks)

1. (a) Explain about what are the materials used for manufacturing the light emitting diodes (20)

Or

- (b) Explain about advanced turbines with neat sketch (20)

2. (a) Explain very deeply the development and implementation of renewable energy Technologies in nano technology (20)

Or

- (b) Discussion the energy challenges in renewable energy for the implementation of Nano-technology. (20)

3. (a) What are the technologies in micro-fuel cell? (20)

Or

- (b) Discussion in micro-fuel cell power sources (20)

4. (a) explain the Driving mechanisms of nano technology (20)

Or

(b) Discuss the Nano-electromechanical systems in renewable energy sources (20)

5. (a) What are the hydride storage materials for automotive applications. (20)

Or

(b) Explain about multiple catalytic effects and degradation of the sorption properties (20)
