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Question Paper Code : X 20472

B.E./B.Tech. DEGREE EXAMINATIONS, NOVEMBER/DECEMBER 2020
Eighth Semester
Electrical and Electronics Engineering
EE6009 – POWER ELECTRONICS FOR RENEWABLE ENERGY SYSTEMS
(Regulations 2013)

Time : Three Hours

Maximum : 100 Marks

Answer ALL questions

PART – A

(10×2=20 Marks)

1. What are the advantages of using grid-connected solar PV system ?
2. Define Betz limit.
3. Write the advantages of wound rotor induction generator used in wind power generation.
4. Mention few permanent magnet materials used in designing PMSGs.
5. Draw the circuit diagram of buck-boost dc-dc converter.
6. What are the factors involved in battery sizing ?
7. Draw the output characteristics of wind turbine and label all the speed ranges.
8. Mention different types of energy storage used in renewable energy system.
9. Define fill factor (FF) of solar cell.
10. What are the advantages of using hybrid energy system ?

PART – B

(5×13=65 Marks)

11. a) i) With the neat diagram explain the working principle of Fuel cell. (7)
ii) Describe the concept of power generation using biomass. (6)
- (OR)**
- b) Discuss the impact of following renewable energy sources on environment.
 - i) Wave energy
 - ii) Wind energy

(6+7)

Power Electronics For Renewable Energy Systems Question Papers

Yijin Wang



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