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School of Engineering**B.TECH Electrical Engineering
Mid Term Examination - May 2024****Duration : 90 Minutes
Max Marks : 50****Sem VI - G2UB602T - Renewable Energy**General Instructions*Answer to the specific question asked**Draw neat, labelled diagrams wherever necessary**Approved data hand books are allowed subject to verification by the Invigilator*

- 1) Classify different types wind turbine on the axis of rotation. K2 (2)
- 2) Define Yaw control and Nacelle. K1 (3)
- 3) Explain crystalline solar cells and thin film solar cells. K2 (4)
- 4) Summarize different forms of energy. K2 (6)
- 5) Identify the Global environmental concern. K3 (6)
- 6) Explain solar modules and solar arrays and construct grid connected solar power plants. K3 (9)
- 7) Classify various Energy Sources. K4 (8)

- 8) Construct the characteristics of PV systems and Analyze the expression for efficiency of solar chimney power plant. K4 (12)

OR

Illustrate various standalone photovoltaic systems with neat diagrams and distinguish between standalone and grid interactive systems. K4 (12)