



**Department of Electrical Engineering**

**Question Bank – INCES – Unit 3**

Que1: What are the different types of winds which could be tapped for the wind energy conversion?

Que2: What are the basic principle of wind energy conversion?

Que3: What is the mathematical interpretation of wind power? How is wind power dependent on the rotor?

Que4: What is the criteria to select site for a wind mill plant?

Que5: Draw a neat labelled diagram for wind turbine listing all the components.

Que6: Draw the component block diagram for a wind turbine.

Que7: Explain in detail all the components present in the nacelle section of a wind turbine.

Que8: Explain the aerofoil design of blades of a windmill. What are the various speeding terminologies associated with the wind turbine.

Que9: Detail about atleast 6 major components of a windmill plant. Explain in detail each of the component.

Que10: Classify the types of wind turbines on the basis of axis of rotation?

Que11: Draw a neat sketch for both HWAT and VWAT? Which type of wind turbine construction is widely used? Write the advantages and drawbacks for both the types.

Que12: What are the types of HWAT and VWAT? Which type is preferred in both categories?

Que13: Explain the electrical generation schemes for a wind turbine.

Que14: Elaborate the various applications of wind energy.