Code No: 156DH JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD B. Tech III Year II Semester Examinations, August/September - 2021 WIND AND SOLAR ENERGY SYSTEMS (Electrical and Electronics Engineering)

Time: 3 Hours

Max. Marks: 75

Answer any five questions All questions carry equal marks

1. Explain in the wind power statistics in Indian and global scenario. [15] 2. Show that the Power of wind is directly proportional to the air density, Speed and Cross sectional Area. [15] 3. Explain in detail about the working of doubly fed Induction generator with a neat diagram. [15] Explain the differences between fixed speed and variable speed wind turbines. 4. [15] Explain in detail about the Solar Declination angle and give its empherical formulae 5. along with necessary explanation. [15] 6. Discuss different solar photovoltaic technologies in detail. [15] What are the power quative ssues in the interconnected systems of solar PV and wind 7. systems? Elaborate. [15] 8. Explain the solar cower generation in Parabolic dish. [15] 90% -00000---

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