



PAPER ID-310330

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Subject Code: BOE074

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BTECH
(SEM VII) THEORY EXAMINATION 2025-26
RENEWABLE ENERGY RESOURCES

TIME: 3 HRS

MARKS: 70

6. Attempt any *one* part of the following: 07 x 1 = 07

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|----|--|---|----|
| a. | What are wind power sources? Explain site selection criteria for installing a wind energy conversion system (WFCS). | 4 | K2 |
| b. | What is meant by concentrators and augmenters? Explain their role in enhancing wind energy conversion and discuss their limitations. | 4 | K2 |

7. Attempt any *one* part of the following: 07 x 1 = 07

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|----|--|---|----|
| a. | What is OTEC? Explain its availability in oceans, working principle of an OTEC power plant and major components. | 5 | K2 |
| b. | Explain the principle, construction, working, performance and limitations of wave energy conversion systems. Give suitable applications. | 5 | K2 |