JAYPEE UNIVERSITY OF INFORMATION TECHNOLOGY, WAKNAGHAT

TEST -1 EXAMINATION- 2026

B.Tech-VII Semester (CSE/IT/BT/ECE/CE)

COURSE CODE (CREDITS): 22B1WCE733 (3) MAX. MARKS: 15

COURSE NAME: PERENNIAL POWER STRUCTURES

COURSE INSTRUCTOR: NIRAJ SINGH PARIHAR MAX. TIME: 1 Hour

Note: *(a) All questions are compulsory.*

(b) The candidate is allowed to make Suitable numeric assumptions wherever required for solving problems

(c) Use of calculator is allowed

Q.No	Question	CO	Marks
Q1	Differentiate between natural and energy resources. Classify the energy sources giving suitable examples. Discuss the formation of any two types of fossil fuels.	CO1	5
Q2	Explain the working of different types of geothermal power plants through schematic diagrams.	CO2,4	5
Q3	Illustrate the concept of mass defect through nuclear fission reactions. Also deduce the energy released in the fission reaction from a unit mass of uranium isotope and compare it with the derived energy from coal having calorific value of 5000 kcal/kg. Explain the conclusions that could be derived from this comparison.	CO3	5

JUIT TEST-1 EXAMINATION- AUG-2026

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