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**School of Computing Science and Engineering**

Bachelor of Technology in Computer Science and Engineering

Mid Term Examination - May 2024

Duration : 90 Minutes

Max Marks : 50

**Sem IV - G2UA421T - 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) Distinguish between N type and P type materials. K2 (2)
- 2) Describe fossil fuels as non-conventional energy resources . K1 (3)
- 3) Discuss the major advantages and disadvantages of solar PV system K2 (4)
- 4) Explain the different types of solar thermal power plants with the help of block diagram. K2 (6)
- 5) Explain the working principle of solar energy into the heat energy. K3 (6)
- 6) Apply the concept of load distribution to select the solar panel installation. K3 (9)
- 7) Compare the different types of systems that are used for generating geo -thermal power. K4 (8)
- 8) Compare the generation of AC and DC Supply with their advantages and disadvantages. K4 (12)

**OR**

- Compare the energy utilisation procedures for solar and Geo-thermal energy. K4 (12)