

**School of Computing Science and Engineering****Bachelor of Technology in Computer Science and Engineering  
Semester End Examination - Jun 2024****Duration : 180 Minutes  
Max Marks : 100****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*

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|-----|--|--------|
| 1)  | What is solar house?   | K1(2)  |
| 2)  | Explain the working principle of thermo-ionic emissions.   | K2(4)  |
| 3)  | What do you understand by solar radiation? Explain different types of solar radiation systems .  | K2(6)  |
| 4)  | List the different safety measures while installing an electrical appliances.                    | K3(9)  |
| 5)  | Apply the concept of site selection for choosing a site for thermoionic power plant.             | K3(9)  |
| 6)  | Justify the of solar energy reaching the upper atmosphere of earth reaches the lower atmosphere. | K5(10) |
| 7)  | Analyze the major hazard of nuclear power generation on human being.                             | K4(12) |
| 8)  | Debate on the advantages and disadvantages of various energy renewable sources.                  | K5(15) |
| 9)  | Justify any source of energy has less consequence? Explain your answer with suitable example.    | K5(15) |
| 10) | Organize the different design issues to install a renewable power plant                          | K6(18) |