Reg. No.: | | | | | | | | |

G. VENKATASWAMY NAIDU COLLEGE (AUTONOMOUS), KOVILPATTI – 628 502.

UG DEGREE END SEMESTER EXAMINATIONS - APRIL 2025.

(For those admitted in June 2023 and later)

PROGRAMME AND BRANCH: B.Sc., ELECTRONICS

SEM	CATEGORY	COMPONENT	COURSE CODE	COURSE TITLE
IV	PART-IV	SEC - 5	U23EL4S5	SOLAR PHOTOVOLTAIC SYSTEM DESIGN

Date & Session:06.05.2025/AN **Time : 2 hours** **Maximum: 50 Marks**

Bloom's K-level	Q. No.	SECTION – A (5 X 10= 50 Marks) Answer ALL Questions choosing either (a) or (b).
K3	1.	What are the Advantages and Disadvantages of Solar Panel? Explain it. **(OR)** Draw the Block Diagram of Solar Photovoltaic System and explain each block of it.
K5	2.	Evaluate the Construction and Working of Solar cell. **(OR)** Explain the General and Technical Requirements for Solar Photovoltaic Module.
K4	3.	Define the following terms 1) Solar Panel 2) Conversion Efficiency **(OR)** What are the steps involved in designing an SPV system
K4	4.	Analyse the key safety guidelines that must be followed during the installation of solar panels. **(OR)** Describe the Electrical Interconnections in the solar panel.
K3	5.	Explain the Precaution and Preventing methods of Solar Panel. **(OR)** Sketch the Troubleshooting flowchart for Solar Photo Voltaic Panel.

Reg. No.: | | | | | | | | |

G. VENKATASWAMY NAIDU COLLEGE (AUTONOMOUS), KOVILPATTI – 628 502.

UG DEGREE END SEMESTER EXAMINATIONS - APRIL 2025.

(For those admitted in June 2023 and later)

PROGRAMME AND BRANCH: B.Sc., ELECTRONICS

SEM	CATEGORY	COMPONENT	COURSE CODE	COURSE TITLE
IV	PART-IV	SEC - 5	U23EL4S5	SOLAR PHOTOVOLTAIC SYSTEM DESIGN

Date & Session:06.05.2025/AN **Time : 2 hours** **Maximum: 50 Marks**

Bloom's K-level	Q. No.	SECTION – A (5 X 10= 50 Marks) Answer ALL Questions choosing either (a) or (b).
K3	1.	What are the Advantages and Disadvantages of Solar Panel? Explain it. **(OR)** Draw the Block Diagram of Solar Photovoltaic System and explain each block of it.
K5	2.	Evaluate the Construction and Working of Solar cell. **(OR)** Explain the General and Technical Requirements for Solar Photovoltaic Module.
K4	3.	Define the following terms 1) Solar Panel 2) Conversion Efficiency **(OR)** What are the steps involved in designing an SPV system
K4	4.	Analyse the key safety guidelines that must be followed during the installation of solar panels. **(OR)** Describe the Electrical Interconnections in the solar panel.
K3	5.	Explain the Precaution and Preventing methods of Solar Panel. **(OR)** Sketch the Troubleshooting flowchart for Solar Photo Voltaic Panel.