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., PHYSICS

SEM	CATEGORY	COMPONENT	COURSE CODE	COURSE TITLE
II	PART - IV	SEC - 3	U23PH2S3	HOME ELECTRICAL INSTALLATION

Date & Session:06.05.2025/FN **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	Explain the principle of transformer. Examine its construction and working. **(OR)** What are the parameters are classified by AC and DC ? and explain it.
K3	2.	Interpret the production and transmission of electricity. **(OR)** Explain the characteristics of single core and multicore wires.
K4	3.	Examine the construction and working of an electric bell with the help of a diagram. **(OR)** Analyze the construction and working of a microwave oven with a neat diagram.
K4	4.	Investigate the conversion of electrical energy into different forms. **(OR)** (i) What is joule's law of heating. An electric fan resistance 15 Ω takes a current of 6 A. Calculate the heat developed in 60 s. (ii) A household uses the following electric appliance; Calculate the electricity bill of the household for the month of June if the cost per unit of electric energy is Rs. 3.00 . (i) Refrigerator of rating 400 w for ten hour each day. (ii) Two electric fans of rating 80 w each for twelve hours each day (iii) Six electric tubes of rating 18 w each for 6hours each day
K5	5.	Explain any four types of fuses. **(OR)** Discuss the tips to avoid electric shocks and first aid for electrical shocks.