

Reg.No.:



VIVEKANANDHA COLLEGE OF ENGINEERING FOR WOMEN  
[AUTONOMOUS INSTITUTION AFFILIATED TO ANNA UNIVERSITY, CHENNAI]  
Elayampalayam – 637 205, Tiruchengode, Namakkal Dt., Tamil Nadu.

**Question Paper Code: 80035**

B.E. / B.Tech. DEGREE END-SEMESTER EXAMINATIONS – JAN. / FEB. 2026

Second Semester

Computer Science and Engineering

U19EE201 – BASIC ELECTRICAL AND ELECTRONICS ENGINEERING

(Regulation 2019)

Time: Three Hours

Maximum: 100 Marks

Answer ALL the questions

Knowledge Levels (KL)	K1 – Remembering	K3 – Applying	K5 - Evaluating
	K2 – Understanding	K4 – Analyzing	K6 - Creating

PART – A

(10 x 2 = 20 Marks)

Q.No.	Questions	Marks	KL	CO
1.	State Kirchoff's Voltage Law.	2	K1	CO1
2.	Define Power Factor.	2	K1	CO1
3.	State Fleming's left hand rule and Fleming's right hand rule.	2	K1	CO2
4.	Write the working principle of a DC motor.	2	K2	CO2
5.	Draw the wiring diagram for controlling one lamp from two different places.	2	K1	CO3
6.	Define Fuse and Circuit Breaker.	2	K1	CO3
7.	Describe the depletion region formed in a PN junction.	2	K2	CO4
8.	List out the application of Zener diode.	2	K1	CO4
9.	Simplify the Boolean expression using the Absorption Law: $A + AB$ .	2	K2	CO5
10.	Draw the logic circuit diagram for $Y = A(B + C)$ .	2	K2	CO5

PART – B

(5 x 13 = 65 Marks)

Q.No.	Questions	Marks	KL	CO
11.	a) Explain how a capacitor stores energy and show the expression for the stored energy.	13	K2	CO1

