

Reg. No.:



Name:

University of Kerala

U9294

Second Semester FYUGP Degree Examination, April 2025

Multi-Disciplinary course

ELECTRONICS

UK2MDCELE101 - Essential Electronics

Academic Level: 100-199

Time: 1 Hour 30 Minutes(90 Mins.)

Max. Marks: 42

Part A. 6 Marks.Time:6 Minutes.(Cognitive Level:Remember(RE)/Understand(UN)) Objective Type. 1 Mark Each.Answer all questions

Qn No.	Question	CL	CO
1	Identify the tool used to measure resistance.	RE	4
2	State the difference between SSD and HDD.	RE	3
3	Program structure of arduino.	UN	1
4	Expand GPS	UN	2
5	Explain the use of PATA.	UN	3
6	Define the purpose of MCB.	UN	4

Part B.8 Marks.Time:24 Minutes.(Cognitive Level:Understand(UN)/Apply(AP))Short Answer. 2 marks each.Answer all questions

Qn No.	Question	CL	CO
7	Define "motherboard".	UN	3
8	Explain the importance of earthing.	UN	4
9	Calculate current for a 100W bulb at 220V.	AP	4
10	What is Piezoelectric Sensors	AP	1

Part C. 28 Marks.Time:60 Minutes (Cognitive Level:Apply(AP)/Analyse(AN)/Evaluate(EV)/Create(CR)) Long Answer.7 marks each.Answer all 4 Questions choosing among options * within each question

Qn No.	Question	CL	CO
11	A) With the help of diagram ,explain the working of a clamp meter	AP	4, 2

Qn No.	Question	CL	CO
	OR B) Demonstrate the working of PA system		
12	A) Explain the working principle of GPRS and GPS systems OR B) Explain the key components of motherboard	AN	2, 3
13	A) Evaluate the suitability of LDR vs. photodiode for light detection. OR B) Compare and evaluate different types of ROM (PROM, EPROM, EEPROM) in terms of functionality and use case.	EV	1, 3
14	A) Formulate a troubleshooting plan for a PC that won't boot. OR B) Explain the different types of memory systems	CR	3, 3