

Vivekananda College of Engineering & Technology, Puttur
 [A Unit of Vivekananda Vidyavardhaka Sangha Puttur ®]
 Affiliated to VTU, Belagavi & Approved by AICTE New Delhi

CRM08

Rev 1.11

ME

13/01/2022

CONTINUOUS INTERNAL EVALUATION - 1

Dept: ME	Sem / Div: 1 st F	Sub: Elements of Mechanical Engineering	S Code: 21EME15
Date: 20/01/2022	Time: 3:00pm-4:30pm	Max Marks: 40	Elective: N

Note: Answer any 2 full questions, choosing one full question from each part.

QN	Questions	Marks	RBT	CO's
PART A				
1 a	With a neat sketch explain the working principle of Oxy-Acetylene gas welding process.	10	L2	CO3
b	With a neat sketch explain the working principle of MIG welding.	10	L2	CO3
OR				
2 a	Briefly explain the process of soldering and brazing with suitable sketches.	10	L2	CO3
b	With a neat sketch explain the working principle of Arc welding.	10	L2	CO3
PART B				
3 a	Explain the modes of heat transfer. Describe any two applications of the heat transfer.	8	L2	CO4
b	Differentiate between soldering and brazing.	7	L2	CO4
c	Write the classifications of engineering materials.	5	L2	CO4
OR				
4 a	Sketch and explain the working principle of Piezoelectric material.	8	L2	CO4

b	Write a short note on composites. List the classification of composite materials.	7	L2	CO
c	Write a short note on stainless steel.	5	L2	CO4

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HOD