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

CRM08

Rev 1.10

ME

26.07.2022

**CONTINUOUS INTERNAL EVALUATION - 2**

Dept: ME	Sem / Div:4 A	Sub: Metal Casting and Welding	S Code: 18ME45B
Date: 03.08.2022	Time: 3:00-4:30 pm	Max Marks: 50	Elective:N

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

QN	Questions	Marks	RBT	CO's
<b>PART A</b>				
1	a Explain the Submerged arc welding process with a neat sketch	10	L2	CO4
	b Sketch and explain the following resistance welding process: I) Seam welding II) Spot welding III) Projection welding	15	L2	CO4
<b>OR</b>				
2	a Explain the TIG welding process with a neat sketch	10	L2	CO4
	b Explain the Atomic hydrogen welding process with a neat sketch	15	L2	CO4
<b>PART B</b>				
3	a With a neat sketch explain electron beam welding	10	L2	CO4
	b Illustrate formation of grain in weld zone (WZ) and heat affected zone (HAZ) of fusion welding process?	15	L2	CO5
<b>OR</b>				
4	a Explain the thermit welding process with sketch	10	L2	CO4
	b Explain the effects of shrinkage in welding and methods to control it.	15	L2	CO5

Prepared by: Harish S R