

CONTINUOUS INTERNAL EVALUATION- 2

Dept: ME	Sem / Div: 2 A, B & C	Sub: Elements of Mechanical Engineering	S Code: 18ME25
Date: 01/09/2021	Time: 3:00 pm - 4:30 pm	Max Marks: 50	Elective: N
Note: Answer any 2 full questions, choosing one full question from each part.			

Q N	Questions	Marks	RBT	COs
PART A				
1 a	Sketch and explain the working of Lancashire boiler.	12	L2	CO2
b	Explain the working of Francis turbine with a neat sketch.	8	L2	CO2
c	Briefly explain about the terms “priming” and “cavitation” related to centrifugal pump.	5	L2	CO2
OR				
2 a	Sketch and explain the working of Babcock and Wilcox boiler.	12	L2	CO2
b	With a neat sketch explain the working Pelton wheel turbine.	8	L2	CO2
c	List out the boiler mountings and accessories. Explain briefly the functions of any 2 boiler mountings.	5	L2	CO2
3 a	Explain the following lathe operations with neat sketch; i) Plain turning ii) Knurling iii) Facing iv) Thread cutting	12	L2	CO5
b	With a neat sketch explain the principle of milling operation.	7	L2	CO5
c	Differentiate between the horizontal and vertical milling machine.	6	L2	CO5
OR				
4 a	Explain the following milling operation with a neat sketch; i) Gang milling ii) End Milling iii) Angular milling iv) Slot milling	12	L2	CO5
b	With a neat sketch explain the taper turning operation on lathe by swiveling the compound rest.	7	L2	CO5
c	What are the specifications of a lathe machine related to its size.	6	L2	CO5