

18

CRM08

Rev 1.11

ME

23/08/22

CONTINUOUS INTERNAL EVALUATION - 3

Dept:ME	Sem / Div:4th	Sub:Mechanical Measurements & Metrology	S Code: 18ME46B
Date:01/09/22	Time: 3:00-4:30	Max Marks: 50	Elective:N

Note: Answer any 2 full questions, choosing one full question from each part.
 Draw neat sketches wherever needed.

QN	Questions	Marks	RBT	CO's
PART A				
1	a Derive an expression for effective diameter using 2-wire method.	10	L2	CO3
	b Discuss the working of tool makers microscope with a neat sketch.	10	L2	CO3
	c Derive an expression for best size wire.	5	L2	CO3
OR				
2	a Describe Parkinsons gear tester with a neat sketch.	10	L2	CO3
	b With a neat sketch explain the terminology of a gear.	10	L2	CO3
	c Explain the gear tooth thickness measurement using constant chord method.	5	L2	CO3
PART B				
3	a Define thermocouple and state its law.	10	L1	CO5
	b Describe the working of Optical Pyrometer with a neat sketch.	10	L2	CO5
	c Discuss the steps in mounting of strain gauges.	05	L2	CO5
OR				

4 a	Explain the working of proving ring.	10	L2	CO5
b	Describe the working of Mc Load gauge with an derivation.	10	L2	CO5
c	Expalin Prony brake dynamometer.	05	L2	CO5

Prepared by: Dr. Deepak KB

HOD