CBCS SCHEME

		18AE36
USN		
	Third Semester B.E. Degree Examination, Jan./Feb. 2021	

			Measurement and monores	
	Tim	ie: 3	nrs.	Marks: 100
		N	ote: Answer any FIVE full questions, choosing ONE full question from each n	nodule.
actice.	4		Module-1	(10 Marks)
alpra	1	a. b.	Using M112 slip gauge set build the following dimensions with minimum n	umber of slip
Important Note: 1. On completing your answers, compulsorily draw diagonal cross lines on the remaining blank pages. 2. Any revealing of identification, appeal to evaluator and /or equations written eg, 42+8 = 50, will be treated as malpractice.		υ.	gauge: (i) 49.3115 (ii) 78.3665	(10 Marks)
SS. Se tre	•	_	Write the comparison between line standard and end standard.	(10 Marks)
page ill b	2	a. b.	Write short notes on: (i) Imperial standard yard (ii) Slip gauge	(10 Marks)
blank		υ.	Module-2	
ing +8 =	2	•	Name the types of fit and explain any two.	(10 Marks)
nair ,, 42	3	a. b.	Write short notes on: (i) Interchangeability (ii) Selective assembly	(10 Marks)
n the rer ritten eg		υ.	OR	(10 Mayles)
es o	4	a.	Explain positional tolerance with neat diagram.	(10 Marks) (10 Marks)
ar answers, compulsorily draw diagonal cross lines on the remaining blank pages. Intification, appeal to evaluator and /or equations written eg, $42+8=50$, will be	•	b.	Explain Taylor's principle for design of gauges. Module-3	(10 Marks)
mal I/or	_		With a neat diagram, explain Solex comparator.	(10 Marks)
iago anci	5	a.	With a neat diagram, explain Sigma comparator.	(10 Marks)
draw d valuator		b.	OR	
orily to e	6	a.	With a neat diagram, explain the principle and working of line bar.	(10 Marks)
ompulse, appeal	U	b.		thod. (10 Marks)
rs, c			Module-4	Congitivity
iswe	7	a,	Define: (i) Accuracy (ii) Precision (iii) Calibration (iv) Threshold (v) Sensitivity (10 Marks)
ır ar Ienti		. ((10 Marks)
eting you		b.	OP	
nple	0	_	1: Great types of mechanical transducer and with neat diagram, explain	n any one.
r cor	8	a.		(10 Marks) (10 Marks)
1. Or 2. An		b		(10 Marks)
ote			Module-5	(10 Marks)
Z Z	9	a	. With a neat diagram, explain analytical balance.	(10 Marks)
ıportaı		b	. With a neat diagram, explain Prony brake dynamometer.	(20
In			OR	(10 Marks)
	1	0 a	. With a neat sketch, explain optical pyrometer.	(10 Marks)
		L	With a neat sketch, explain thermocouple.	

b. With a neat sketch, explain thermocouple.