Su' Su' Tir	bject bject ne: 1	t Code t Name 10:30 A	UJARAT  PDDC- SI : X21903 e: MECHA AM to 01:0	EMES	TER-	II - EXA	MIN	ATION	– Sl	J <b>NI</b> JMM	VER ER 201	17 Date: 'ROL	Y 03/06	/201′	
1. 2.	Atte Mak	ke suita	y five questi ble assumpt the right ind	ions v				ary.							
Q.1	(a)	<ol> <li>Lis</li> <li>De</li> <li>De</li> <li>Pit</li> <li>De</li> <li>Ex</li> <li>Sta</li> <li>Ho</li> <li>the</li> <li>Ex</li> <li>Dr</li> <li>wir</li> </ol>	er the following the different of the term of the term of the term of the following the fine: (i) Resolution briefly the the different way can you in a dvantage of the the slip aw a neat slip aw a neat slip the tits range a st the different of the transparation.	nt typ as: Ac ng te  colutio : Interent us ncreas and o gaug ketch nd ac	es of ccurac rms 1 n (ii) rnatio es of se the disa ges br of th ccurac	errors y and related Thresh nal ten telesco upper idvanta iefly. iermo y of m	Preci to s nold. npera opic s rang range	sion. screw to ature sc gauge. se of m of usi le and rement	cale (cale (lercurate of the lercurate o	d med ITS).  ry in mercular three	glass t ury as	hermoi s liqui	meter? id in	State	14
Q.2	(a) (b)	Explain liquid - in - glass thermometers in detail with neat sketch.  Explain the need of calibration of an instrument? How it can be carried out? The following sets of observation are taken while calibrating Bourdon tube pressure gauge with dead weight pressure gauge:													
		(kgf/c		5 4.5	9.6	15 14.2	20 18	25 22.5	30 28	25 26	20 19.5	15 16.2	10	7.0	

Draw the different calibration of	curves (graphs)	and give your	comments on it.

Q.3 (a) Explain the working principle and construction of bimetallic thermometer with 07 neat sketch.

(b) Explain the construction and working of McLeod gauge with neat sketch.

**07** 

Q4 (a) List the different Linear measuring instruments. Explain vernier height gauge in 07 detail.

(b) Explain the need for surface roughness measurement. Explain the different **07** parameters used in surface roughness measurement.

		Screw thread measurement.	
	<b>(b)</b>	Explain the following (Any TWO):	<b>07</b>
		1. seismic pick ups	
		2. Hot-wire anemometer	
		3. elastic force transducers	
Q.6	(a)	Explain the gear tooth vernier with neat sketch (construction, working and applications-uses).	07
	<b>(b)</b>	List the different angular measuring instruments. Explain the construction and working and limitations of sinebar with neat sketch.	07
Q.7	(a)	Discuss the need of alignment tests of different machine tools? Explain the alignment tests for lathe / drilling machine tool with neat sketch.	07
	<b>(b)</b>	Explain the Tool-makers microscope with neat sketch (construction, working and applications-uses).	07

Q.5 (a) Explain the two wire system and three wire system of measurements used in 07

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