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Code No JA	: 115AJ AWAHARLAL NE B.Tech III Year I	HRU TECHNO	LOGICAL UN	IVERSITY HY nber/December	R13 DERABAD - 2016	
Time: 3	RO	ENGINEERIN	IG METROLO al Engineering)	GY	Max. Marks: 75	
P	his question paper coart A is compulsory onsists of 5. Units. A marks and may have	which carries 2 nswer any one for	5 marks. Answall question fron	er all questions n each unit Each	in Part A. Part B	F
		PA	RT - A		(25 Marks)	
b)	Why is unilateral tole. Why it is necessary to Distinguish between to Explain the working to	give tolerance in neasuring instrur	n engineering du nent and a gauge	mensions	[2] vels. [3]	Fil
f) N g)	What is optical flat?  Hame the various type  Define the principle of  What are the reasons  Distinguish the compa  List out the various characters	f Talysurf instrum for controlling the arator and gauge.	ment. ::::: ::::: e surface texture	<sub>2?</sub> RO	[2] [3] [2] [3] [2] [3]	FCI
R 8	Re	PA	RT - B	RØ	(50 <b>(V</b> tarks)	
b) E	What are the advantage Explain briefly the dissembly.	ges of interchang fference betweer	n the interchange	eable manufactu	aring and selective [5+5]	
b) A	What are the different A shaft with a nomina 5/h6.	al size of 42 mm	is fitted with an	inner ring. The	fitting condition is	
i) ii	) Determine the type i) Mention, whether	of fit between th it is a hole-based	e shaft and the h or a shaft-based	ole.	[5+5]	
4.a) S b) V	State the Taylor's print Write a short note of	nciple for the des	ign of limit gaug	ges.	the limit gauges.  [5+5]	RI
	•		OR		AND 100 LANGE OF THE PARTY.	
III.	Design the general ty = Microns = 0.45. (Dialls from the diameter olerance.	(1/3) +0.001D, up	per deviation o	f "f" shaft = -5	.5D 0.41, .20 mm	W.

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