

ANJUMAN-I-ISLAM'S KALSEKAR TECHNICAL CAMPUS, NEW PANVEL

School of Engineering & Technology

DEPARTMENT OF MECHANICAL ENGINEERING

CLASS:- TE ME (I & II)

SUBJECT:- PP3

DURATION:- 60 min.

SEM:- V

DATE:- 15 / 09 / 2016

MARKS:- 20

CLASS TEST 01

Q.UI P	ttempt any two: (08 Marks)	
a)	What is Transfer line? Explain its Classification, Advantages and Limitations	04
b)	Explain Compound die with diagram	04
c)	Explain types of Automats	04
Q.02 A	ttempt any two: (12 Marks)	
a)	A circular cup is manufactured using deep drawing process has a height of 48mm and a	06
	diameter of 48mm. the corner radius is 2mm and working piece material is medium	
	carbon steel and is 1mm thick. Determine the following:	
	a) Percentage deduction	
	b) Blank size	
	c) No. of draws required	
	d) Punch and die radius	
	e) Die clearance	
	f) Drawing force	
	g) Blank holding force	
	(take yield strength as 427 N/mm ²)	
b)		06
	with 2.5 cm diameter hole from material 3mm thick having shear strength 360 N/mm ²	
c)	Explain types of strip layout in detail	06