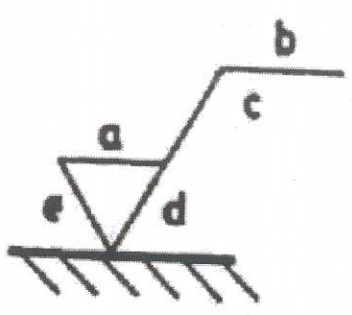


SCHEME OF EVALUATION
(Scoring Indicators)

REVISION: 2015		COURSE CODE: 4026			
COURSE TITLE: Production Drawing					
Qst. No.	Scoring Indicator	Split up score	Sub Total	Total	
I.1	<p><u>PART A</u></p> <p>a) 40H7 Max: 40.025mm Min: 40mm b) 30H8 Max: 30.033mm Min: 30mm c) 20p6 Max: 20.035 mm Min: 20.022 mm d) 35js6 Max: 35.008 mm Min: 34.992 mm e) 25f7 Max: 24.98 mm Min: 24.959 mm</p>	5 X 1	5	5	
I.2	 <p>a = Roughness value b = Production method c = Sampling length d = Direction of lay e = Machining allowance</p>	5 X 1	5	5	
I.3	<p> parallel to the plane of projection of the view</p> <p>⊥ perpendicular to the plane of projection of the view</p> <p>X Crossed in two slant directions relative to the planed projection of the view</p> <p>M multi directional</p> <p>C approximately circular relative to the centre of the surface</p> <p>R approximately circular radial to the centre of the surface</p>	5 X 1	5	5	

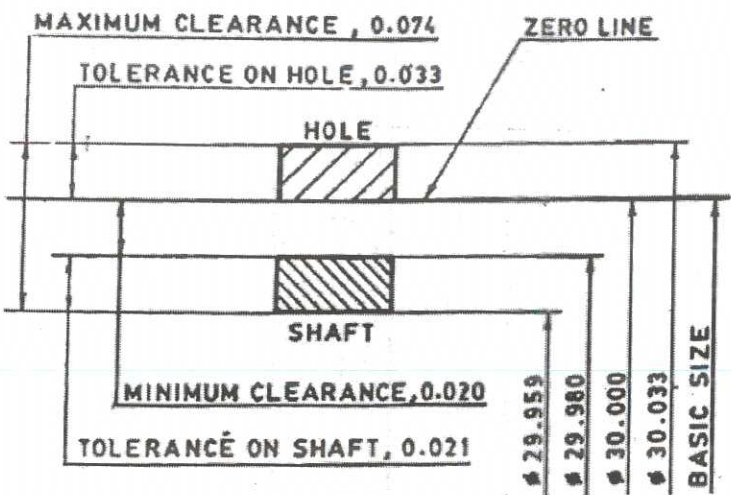
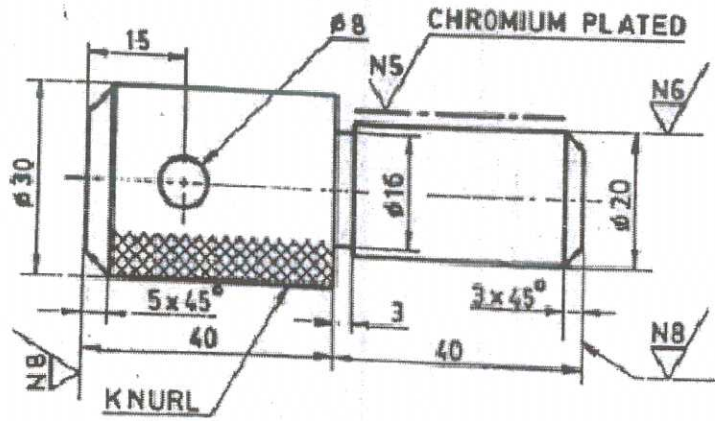
I.4	1. Operation process charts 2. Flow process charts 3. Man and machine process charts 4. Operator process charts 5. Progress process charts 6. Miscellaneous process charts.	5 X 1	5	5
II.1	<p>PART B</p> <p>Minimum limit of the hole = Basic size of the hole = 30 mm Maximum limit of the hole = (Minimum limit of the hole) + (Tolerance on the hole) = 0 30 + 0.033 = 0 30. 033 mm Minimum clearance = (Minimum limit of the hole) - (Maximum limit of the shaft) ie., 0.020 = 0 30.000 - (Maximum limit of the shaft) Maximum limit of the shaft = 0 30.000 - 0.020 = Ø29.980mm Minimum limit of the shaft = (Maximum limit of the shaft) - (Tolerance on the shaft) = 29.980 - 0. 021 = 0 29.959 mm</p> 	4X3	12	15

Fig 3 3

II.2



4 X 3

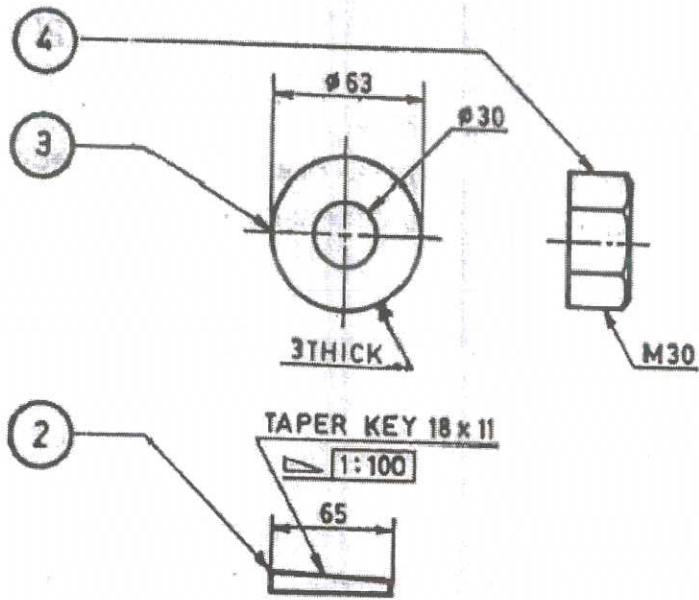
12

15

Drawin
g 3

3

OPERATION CHART							
NAME : Locating pin		MATERIAL: Steel		WEIGHT / PIECE : 1.67 kg.			
PART NO : 93 0031 06		SPEC. IS : 886 PART-1		TOTAL OPERATIONS : 11			
DRG. NO : LP 0030 09		SIZE : ϕ 25 x 106		CYCLE TIME : 36 minutes			
EQUIPMENT : Drill Jig		QTY. REQD : 25		APPROVED :			
SEQUENCE	DEPT.	OPERATIONS	MACHINES	TOOLS / GAUGE	SET UP TIME (Minute)	OPEN TIME (Minute)	REMARKS
05	D ₁	Remove bar stock to turning department D ₂	Truck	—	—	1	
10	D ₂	Hold bar stock in self centering chuck machine to ϕ 24 for an approximate length of 106 mm	Lathe	Turning tool	1	4	
15	"	Rough machine ϕ 18 for a length of 70 mm	"	"	—	6	
20	"	Face the end	"	Facing tool	1	2	
25	"	Finish machine of ϕ 24	"	Turning tool	—	4	
30	"	Finish machine of ϕ 15 \pm 0	"	"	—	5	
35	"	Thread M 16	"	Threading tool	1	3	
40	"	Chamfer the edges	"	Chamfering tool	1	1	
45	"	Part the pin from the bar stock	"	Parting tool	1	3	
50	"	Inspect the Locating pin	—	Gauges	—	1	
55	D ₁	Store in bin	—	—	—	1	
Total					5	31	



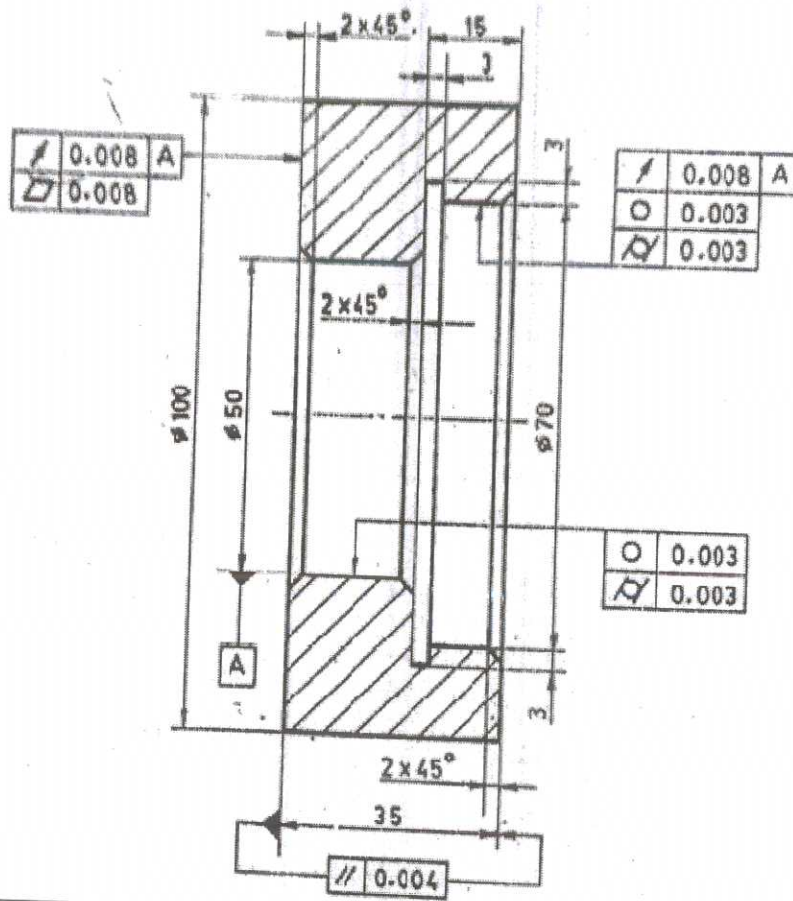
ITEM LIST

Item	Description	Qty.	Material
1	Crank shaft	1	Steel
2	Taper key	1	M. S.
3	Washer	1	M. S.
4	Nut	1	M. S.
5	Crank pin	1	Steel
6	Crank	1	C. S.

Drawi
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and
item
list
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10

IV.



4X10

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50

Drawi
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