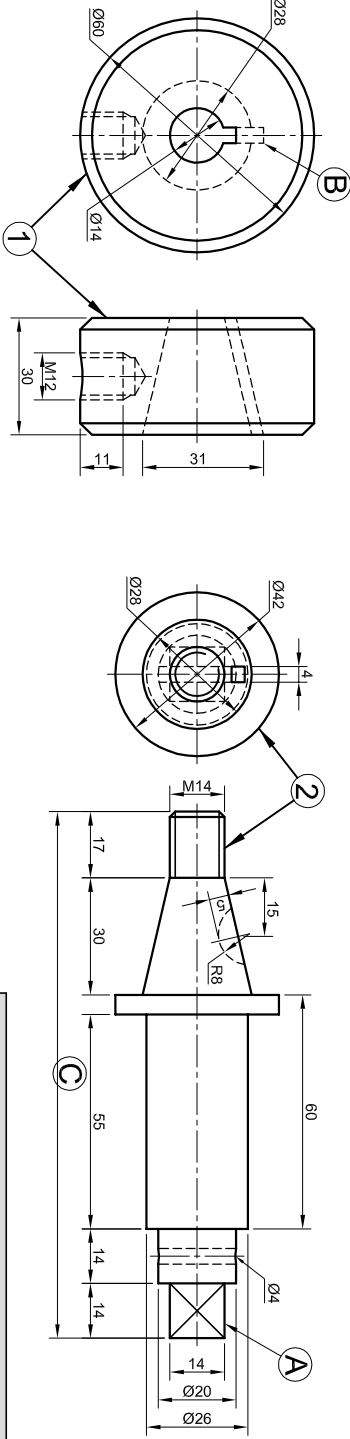


QUESTION 1: ANALYTICAL (MECHANICAL)

Given:
Four parts of a locking mechanism with a title block and a table of questions.

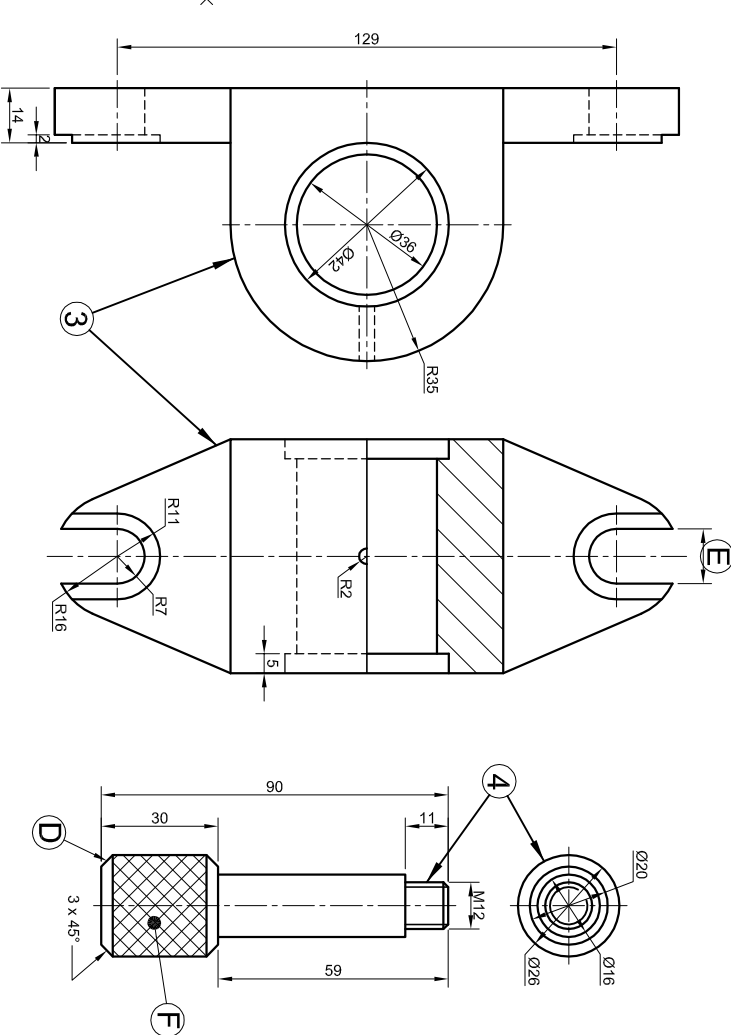
Instructions:
Complete the table below by neatly answering the questions, which all refer to the accompanying drawings and title block. [26]



QUESTIONS

ANSWERS

1	On what date was the drawing first checked?		1
2	From what material is the cover manufactured?		1
3	Which drawing method was used to create these drawings?		1
4	How many sets of drawings are there?		1
5	What is the tolerance allowed on the dimensions?		1
6	What does the cross at A indicate?		1
7	What is feature B called?		1
8	What is the total length (C) of the shaft?		1
9	What is feature D called?		1
10	Determine the dimensions at E?		1
11	What is the thickness of the key that will be used between the shaft and collar?		1
12	What type of section is shown on part 3?		1
13	What is feature F called?		1
14	What is the purpose of feature F?		1
15	Draw the arrows for the cutting plane located on part 3 and label it A-A.		4
16	In the box below (ANSWER 16), draw, in neat freehand, the symbol for the projection system used.		4
17	In the box below (ANSWER 17), draw, in neat freehand, the front and side view of the key to be used in the assembly.		4
TOTAL			26



ALL DIMENSIONS ARE IN MILLIMETRES.			
UNLESS OTHERWISE SPECIFIED, TOLERANCES ON DIMENSIONS ARE ± 0,25.		DRAWN BY: SUNE	
ALL UNSPECIFIED RADII ARE R3.		DATE: 20/04/2011	
DRAWING PROGRAM: AUTOCAD 2008		CHECKED BY: LEANDI	
		DATE: 26/04/2011	
		APPROVED BY: ALIDA	
		DATE: 01/05/2011	
		SCALE: 1 : 2	

15/05/2011		ALETTA		ANGLE OF TAPER		A	
DATE		CHANGED BY		REVISION DESCRIPTION		No	
DRAWING SET NO. 4 OF 6		FILE NAME: P-S2-B4		MATERIAL: VARIOUS			
DATE: 20/04/2011		HEAT TREATMENT: NONE					
DRAWN BY: SUNE		CHECKED BY: LEANDI		DATE: 26/04/2011		APPROVED BY: ALIDA	
DATE: 01/05/2011		SCALE: 1 : 2					

LOCKING MECHANISM

15/05/2011		ALETTA		ANGLE OF TAPER		A	
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LOCKING MECHANISM

PARTS LIST					
PART	QUANTITY	MATERIAL			
1. COLLAR	1	MILD STEEL			
2. SHAFT	1	MILD STEEL			
3. COVER	1	CAST IRON			
4. LEVER	1	MILD STEEL			

EXAMINATION NUMBER			
EXAMINATION NUMBER		2	