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IF IN DOUBT, ASK

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Q1: The parts of a machine as shown in Fig. 1 are given in adjoining figures. Generate the parts of the machine by using Autodesk Inventor/ FreeCAD software, assemble the parts and make the sectional views. Arrow in Figure 1 shows the front viewing direction of the assembly.

2

The marks are divided in the following categories:

1. Generation of parts (22 Marks)
2. Assembly (06 Marks)
3. Top View and Sectional front views of assembly with overall dimensions (02 Marks)

Note for Submission:

Save all the part files, assembly and drawing files in a single folder. The name of the folder will be "**Major_Entry No_Group No**" (e.g. Major_2020PH12345_01). Then compress the folder in "**.zip** format" and provide the name to that zip file same as the folder name. This zip file you have to upload on moodle followed by the link <http://moodle.iitd.ac.in/> You may zip your folder by right click on the folder and select "add to archive" and then select zip format from the window then select ok.

Do use 'Scaling Factor' as your 'Token Number'.

Link to get the Token Number/Scaling Factor :

<https://moodle.iitd.ac.in/mod/assign/view.php?id=65363>

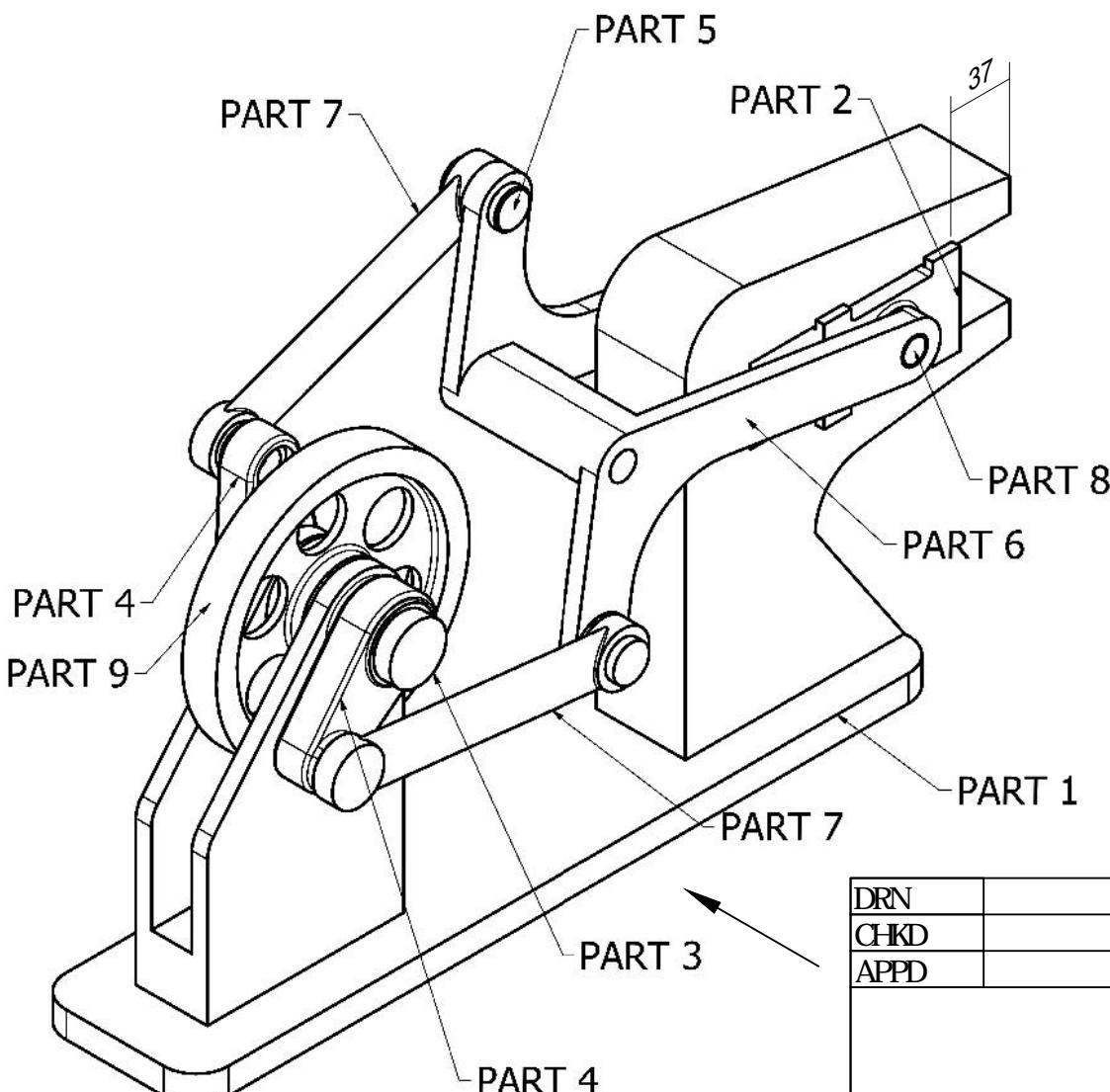


Figure 1

DRN		DEPARTMENT OF MECHANICAL ENGINEERING, IIT DELHI	
CHKD		MCP 100: ENGINEERING VISUALIZATION & COMMUNICATION	
APPD		II SEMESTER AY 2020-21	
MAJOR EXAM: MCP 100		TITLE: ASSEMBLY M 01.01	
Paper 1: SOFTWARE BASED		PART NO. M 01.00	
SCALE: XX		DRAWING NO: 2020-21/II/M 01.00	SHEET 1 of 12
ALL DIMENSIONS ARE IN MM		REV. O	

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IF IN DOUBT, ASK

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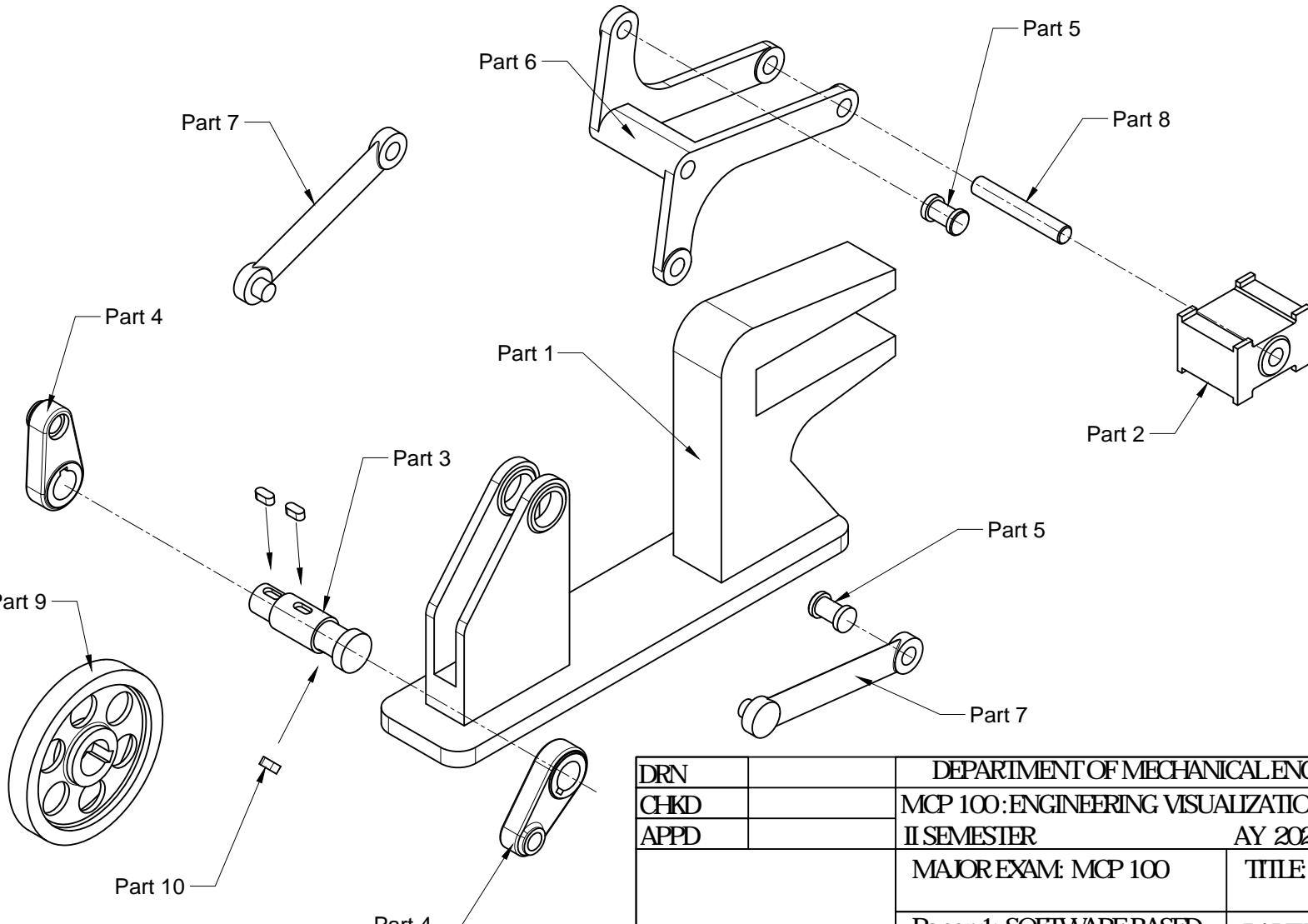


Figure 2

DRN	DEPARTMENT OF MECHANICAL ENGINEERING, IIT DELHI		
CHKD	MCP 100: ENGINEERING VISUALIZATION & COMMUNICATION		
APPD	II SEMESTER AY 2020-21		
	MAJOR EXAM: MCP 100	TITLE: ASSEMBLY M.01.02	
Paper 1: SOFTWARE BASED		PART NO. M.01.00	
SCALE: XX		DRAWING NO: 2020-21/II/M.01.00	SHEET 2 of 12
ALL DIMENSIONS ARE IN MM			REV. O

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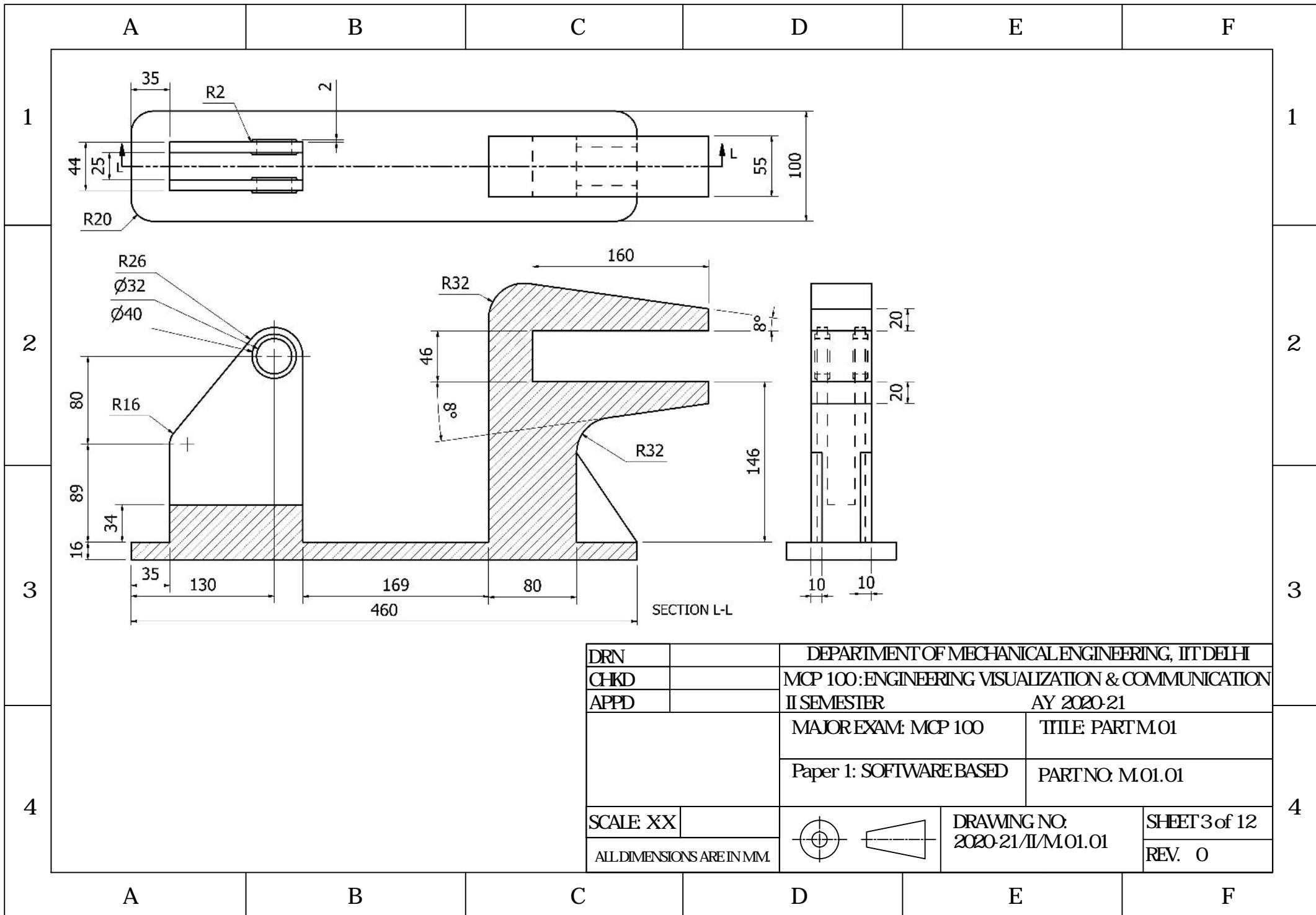
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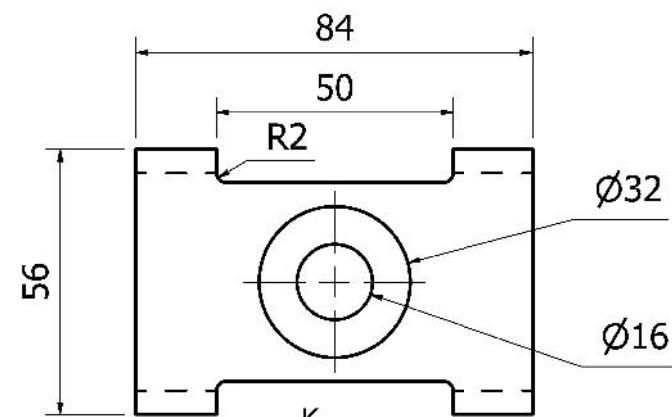
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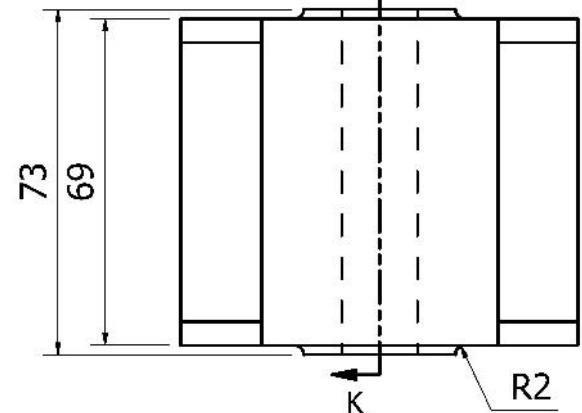
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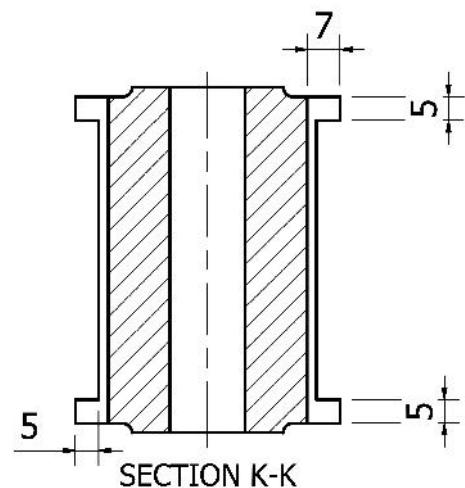
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DRN		DEPARTMENT OF MECHANICAL ENGINEERING, IIT DELHI	
CHKD		MCP 100: ENGINEERING VISUALIZATION & COMMUNICATION	
APPD		II SEMESTER AY 2020-21	
		MAJOR EXAM: MCP 100	TITLE: PART M 01
		Paper 1: SOFTWARE BASED	PART NO. M 01.02
SCALE: XX		DRAWING NO: 2020-21/II/M 01.02	SHEET 4 of 12
ALL DIMENSIONS ARE IN MM			REV. O

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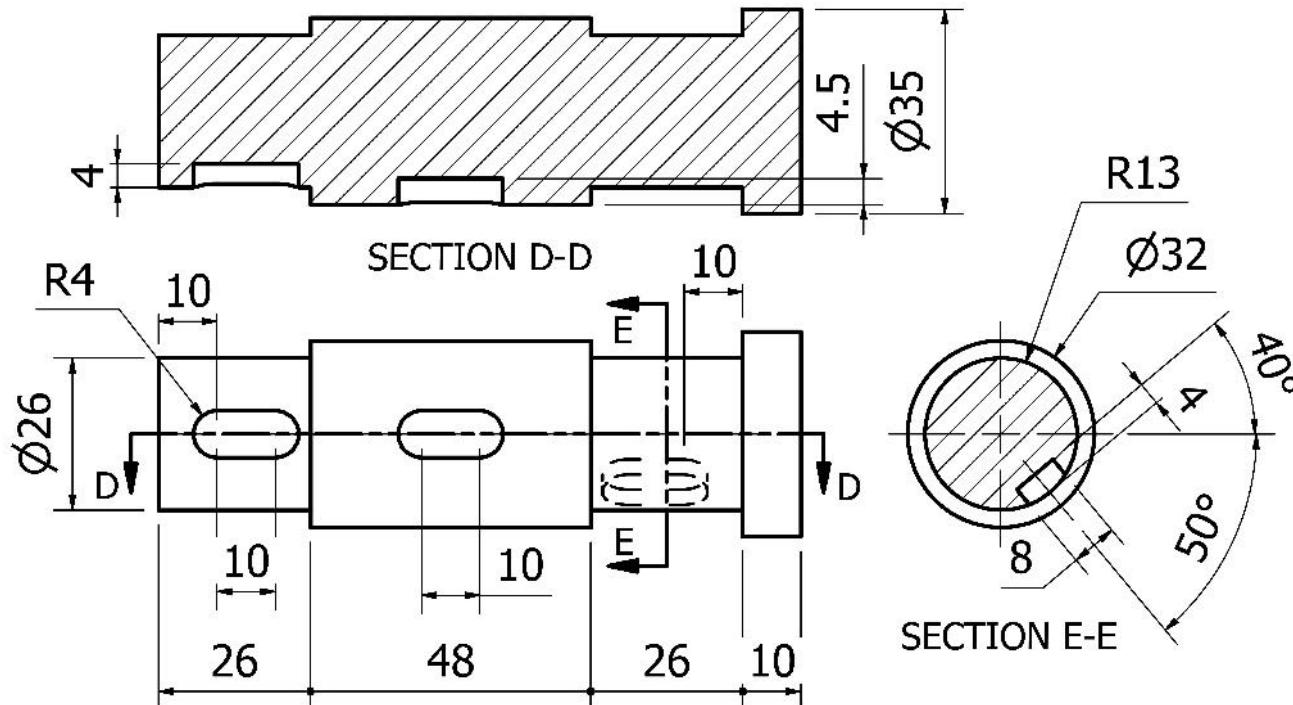
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All three Slots have same dimension



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APPD		II SEMESTER AY 2020-21
	MAJOR EXAM: MCP 100	TITLE: PART M 01
	PAPER 1: SOFTWARE BASED	PART NO. M 01.03
SCALE: XX		DRAWING NO: 2020-21/II/M 01.03
ALL DIMENSIONS ARE IN MM		SHEET 5 of 12
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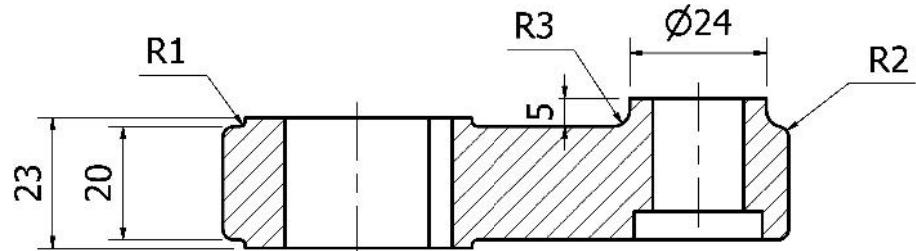
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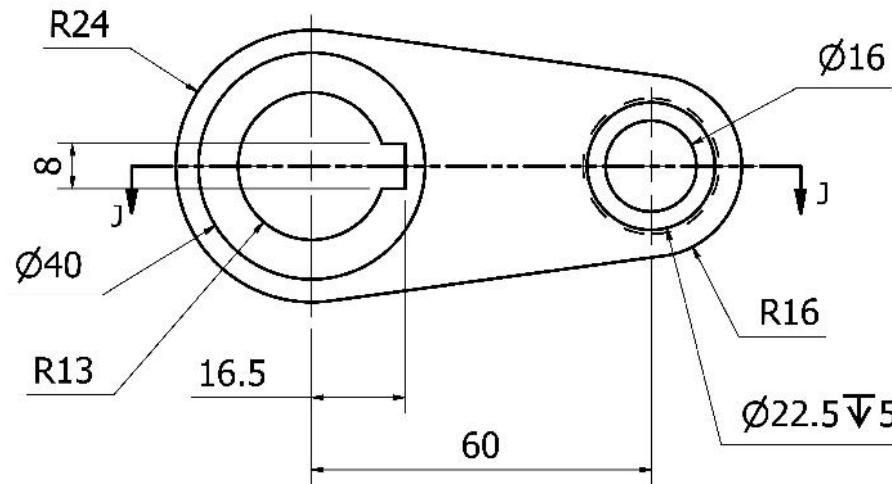
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CHKD		MCP 100: ENGINEERING VISUALIZATION & COMMUNICATION	
APPD		II SEMESTER AY 2020-21	
		MAJOR EXAM: MCP 100	TITLE: PART M 01
Paper 1: SOFTWARE BASED		PART NO. M 01.04	
SCALE: XX		DRAWING NO: 2020-21/II/M 01.04	SHEET 6 of 12
ALL DIMENSIONS ARE IN MM			REV. O

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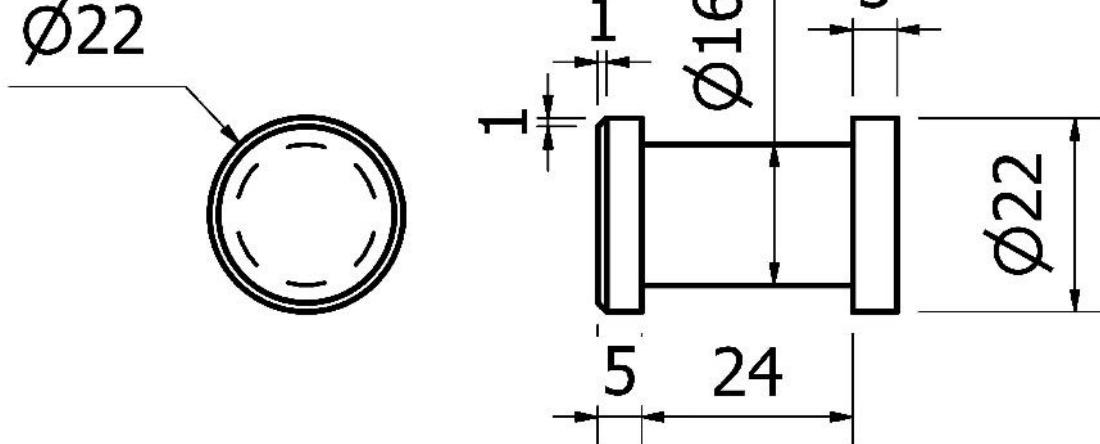
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DRN		DEPARTMENT OF MECHANICAL ENGINEERING, IIT DELHI	
CHKD		MCP 100: ENGINEERING VISUALIZATION & COMMUNICATION	
APPD		II SEMESTER AY 2020-21	
		MAJOR EXAM: MCP 100	TITLE: PART M 01
Paper 1: SOFTWARE BASED		PART NO. M 01.05	
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ALL DIMENSIONS ARE IN MM			REV. O

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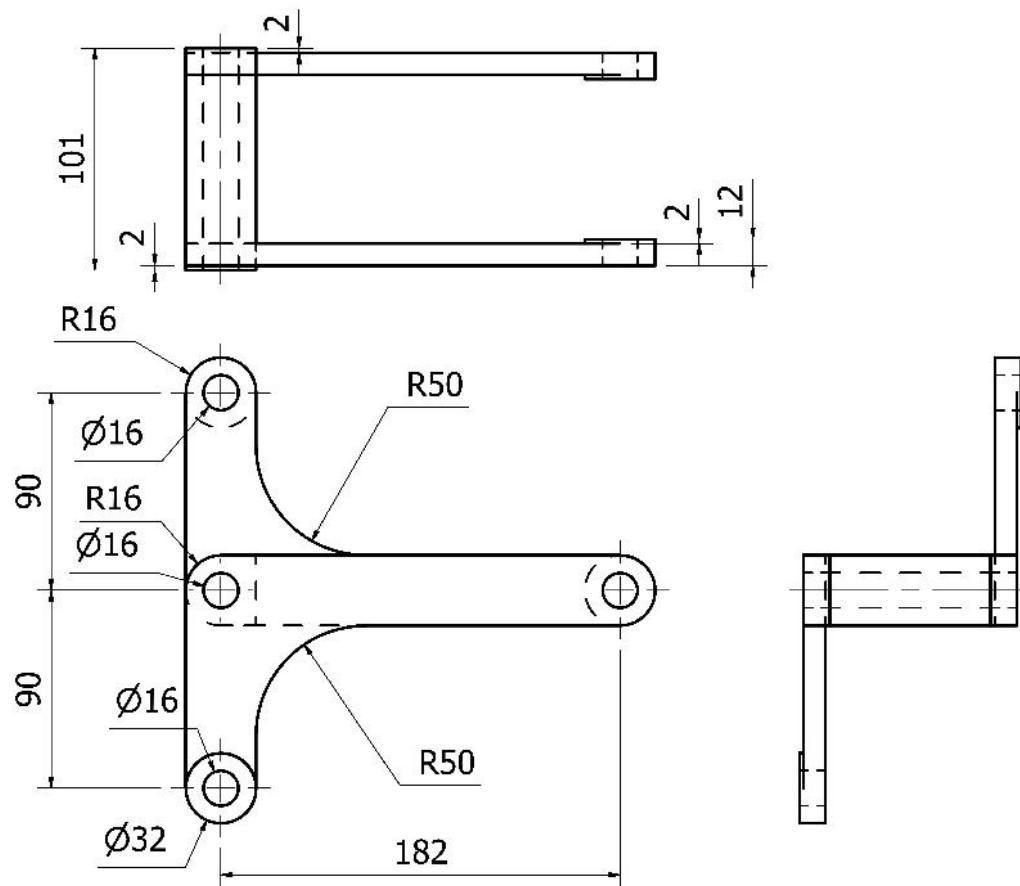
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CHKD		MCP 100: ENGINEERING VISUALIZATION & COMMUNICATION	
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		MAJOR EXAM: MCP 100	TITLE: PART M 01
		Paper 1: SOFTWARE BASED	PART NO. M 01.06
SCALE: XX		DRAWING NO: 2020-21/II/M 01.06	SHEET 8 of 12
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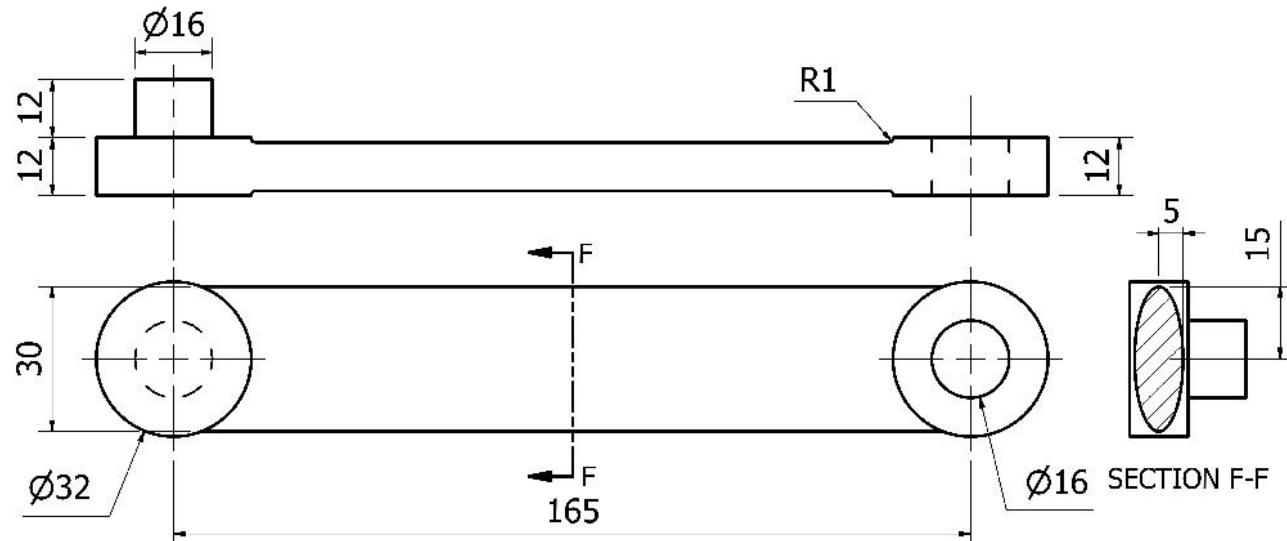
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CHKD		MCP 100: ENGINEERING VISUALIZATION & COMMUNICATION	
APPD		II SEMESTER AY 2020-21	
		MAJOR EXAM: MCP 100	TITLE: PART M 01
Paper 1: SOFTWARE BASED		PART NO. M 01.07	
SCALE: XX		DRAWING NO: 2020-21/II/M 01.07	SHEET 9 of 12
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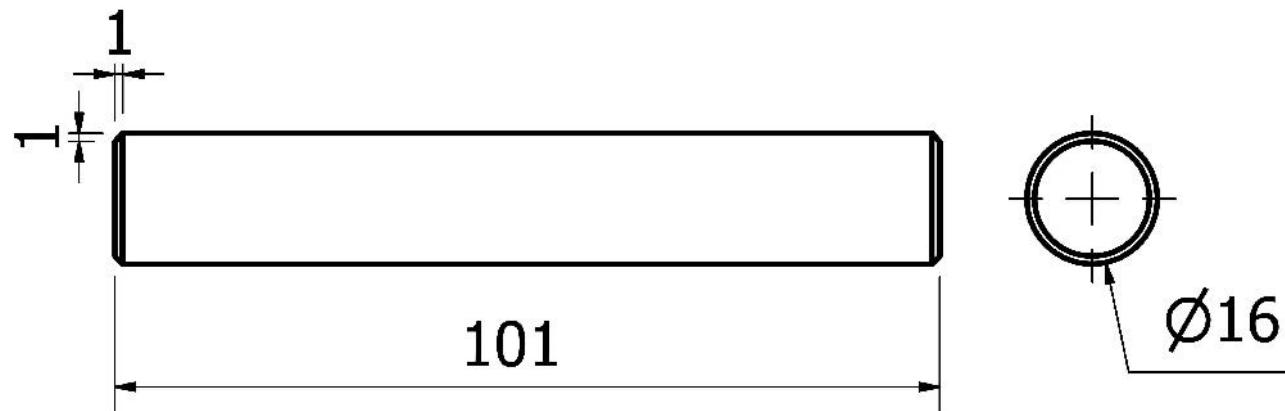
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		MAJOR EXAM: MCP 100 TITLE: PART M 01		
		Paper 1: SOFTWARE BASED PART NO. M 01.08		
SCALE: XX			DRAWING NO: 2020-21/II/M 01.08	SHEET 10 of 12
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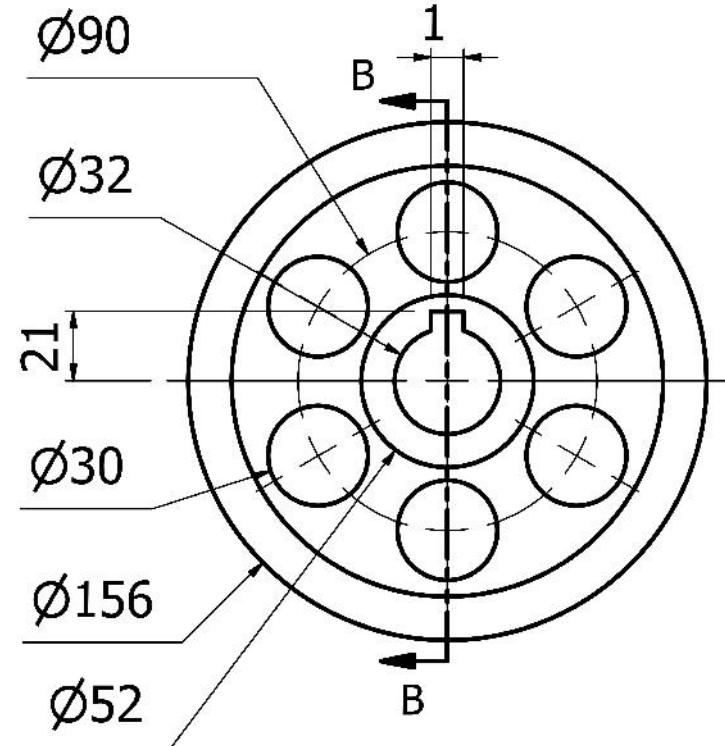
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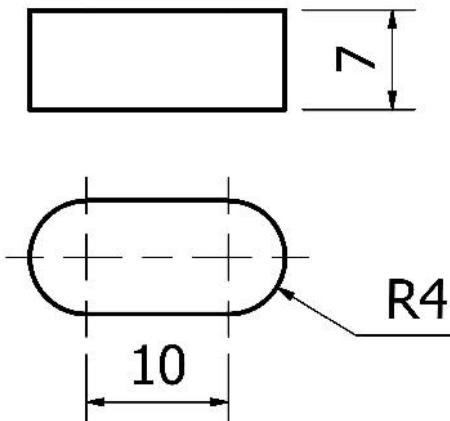
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CHKD		MCP 100: ENGINEERING VISUALIZATION & COMMUNICATION	
APPD		II SEMESTER AY 2020-21	
		MAJOR EXAM: MCP 100	TITLE: PART M 01
		Paper 1: SOFTWARE BASED	PART NO. M 01.09
SCALE: XX		DRAWING NO: 2020-21/II/M 01.09	SHEET 11 of 12
ALL DIMENSIONS ARE IN MM			REV. O

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DRN		DEPARTMENT OF MECHANICAL ENGINEERING, IIT DELHI																								
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