

Model Question Paper-2 with effect from 2019-20 (CBCS Scheme)

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Fourth Semester B.E. Degree Examination COMPUTER AIDED MACHINE DRAWING (18 IM 42)

TIME: 03 Hours

Max. Marks: 100

- Note:**
1. Answer any THREE full questions, choosing at least ONE question from PART A, PART B and PART C.
 2. Use FIRST ANGLE projection only.
 3. Missing data if any may suitable be assumed.
 4. All the calculations should be on the answer sheet supplied.
 5. All dimensions are in mm.
 6. In Part C the Assembled View should be in 3D and other 2 views in 2D.

CO#	Course Outcome	Bloom's Level
CO1	Construct the orthographic and sectional views of simple machine parts.	L3
CO2	Make use of empirical proportions / relations to draw fasteners, keys, joints and couplings.	L3
CO3	Construct an assembly drawing of simple mechanical devices from the given part drawings of machine components.	L3

PART A	CO	*Bloom's	Marks
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			Taxonomy Level		
Q.01		Draw the front, top and right side views for the object given below:	CO 1	L3	20
		OR			
Q.02		Draw the neat and proportionate sketches of ISO screw thread profile of pitch 50 mm. Indicate all proportions and dimensions.	CO 1	L3	20
		PART B			
Q. 03		Draw to 1:1 scale, top view and sectional front views of a double riveted lap joint with zig-zag riveting. The thickness of the plate is 12 mm. Show at least 3 rivets. Use snap head rivets. Indicate all the dimensions.	CO 2	L3	20
		OR			
Q.04		Draw the right view and front view with top half in section of a split muff coupling to connect two shafts of diameter 30 mm. Indicate a few important dimensions in terms of shaft diameter 'd'.	CO 2	L3	20
		PART C			
Q. 05		Figure 1 shows the details of a Plummer Block. Assemble the parts, and draw (a)Sectional Front view, (b) Top view.	CO 3	L3	60
		OR			
Q. 06		Figure 2 shows the details of a Machine Vice. Assemble the parts, and draw(a)Sectional Front view, (b) Top view.	CO 3	L3	60

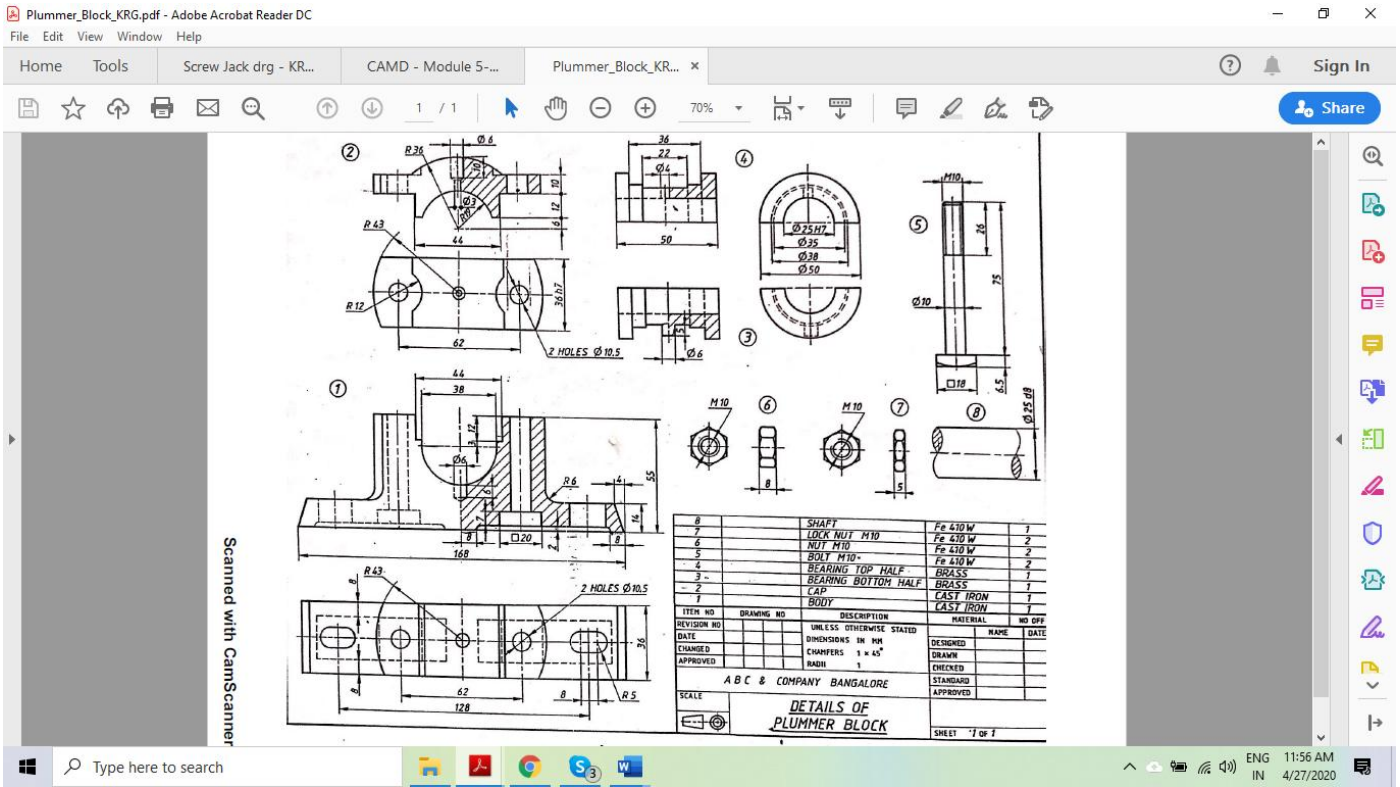
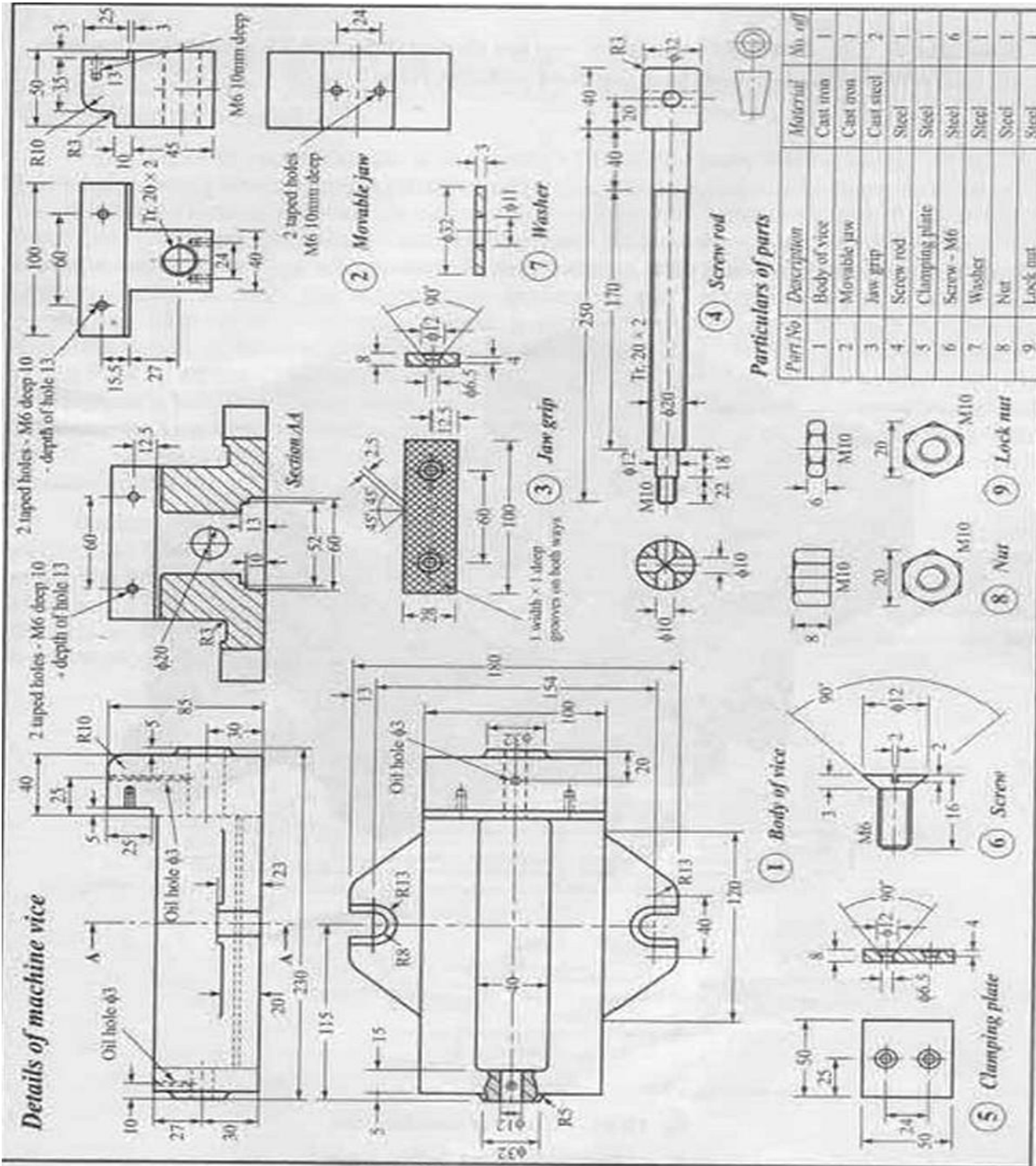


FIGURE 1



Particulars of parts

Part No	Description	Material	No. off
1	Body of vice	Cast iron	1
2	Movable jaw	Cast iron	1
3	Jaw grip	Cast steel	2
4	Screw rod	Steel	1
5	Clamping plate	Steel	1
6	Screw - M6	Steel	6
7	Washer	Steel	1
8	Nut	Steel	1
9	Lock nut	Steel	1

FIGURE 2