

Model Question Paper-1 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: 3 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. InPart C the Assembled View should be in 3D and other 2 views in 2D.

CO#	Course Outcome	Bloom's Level
CO1	Construct theorthographic 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 anassembly 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		A hexagonal pyramid sides of base 30 mm and altitude 70 mm rests with its base on HP and with a side of base parallel to VP. It is cut by a cutting plane inclined at 35° to HP and perpendicular to VP and is bisecting the axis. Construct the front view, sectional view looking from the top and true shape of section.	CO 1	L3	20
OR					
Q.02		Draw two views of a hexagonal headed bolt and nut with washer (assembly) for a 25 mm diameter bolt. Take the length of the bolt equal to 125 mm.	CO 1	L3	20
PART B					
Q. 03		Draw to 1:1 scale, top view and sectional front views of a double riveted chain lap joint. The thickness of the plate is 9 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 protected type flanged 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 Screw Jack. Assemble the parts and draw (a)Front view in half section, and (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

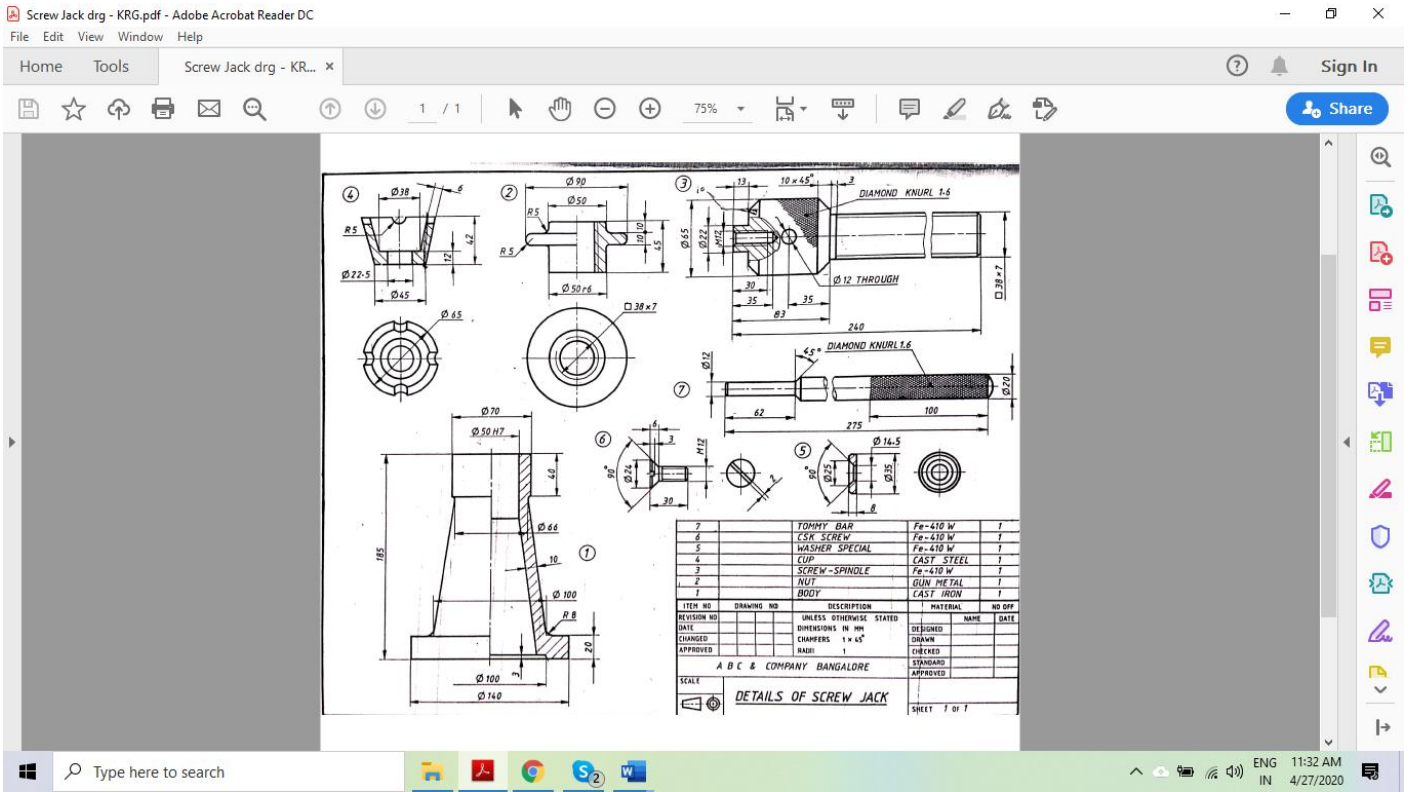


FIGURE 1

