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

USN | | | | | | | | | | |

Fourth Semester B.E. Degree Examination
Computer Aided Machine Drawing

TIME: 03 Hours **Max. Marks: 100**

Note: 1. Answer any ONE question from each of the parts A, B and C.
2. Use **FIRST ANGLE** projection only.
3. Missing data, if any, may be suitably assumed and clearly stated.
4. All calculations should be performed on the answer sheet supplied.
5. All the dimensions are in mm.
6. Drawing instruments may or may not be used for sketching.
7. **Part C Assembled View should be in 3D and other 2 views in 2D.**

	PART A	***Bloom's Taxonomy Level**	**Marks**
Q.01	A cube of 30 mm edges is cut by a section plane so that the true shape of section is a regular hexagon. Draw the projections of the cube and find the inclination of the section plane with HP. Also measure the length of sides of the regular hexagon in true shape of the section.	**LII**	**20**
	OR		
Q.02	Draw the three views of ISO threaded square bolt 100 mm long, 20 mm diameter with a thread length of 50mm. Square nut and bolt assembly is with the axis in horizontal position. Show the assembly of bolt and nut in the view across corners. Indicate all the proportions and the actual dimensions.	**L V**	**20**
	PART B		
Q. 03	Draw the sectional Front View and the Top View of a Double Riveted Lap Joint with rivets in Zig Zag arrangement. Thickness of plates = 10 mm. Show all the dimensions on the drawing.	**L V**	**30**
	OR		
Q.04	Draw the Sectional Front and Top View of an Oldham's Coupling to connect two shafts of diameter 30mm.	**L V**	**30**
	PART C		
Q. 05	FigureQ.(5) shows the details of a Plummer Block. Assemble all the parts and draw the following views. a. Half sectional front view showing the right half in section. b. Top view.	**L VI**	**50**
	OR		
Q. 06	Figure Q.(6) shows the details of a Screw Jack. Assemble the parts and show the following views. c. Half sectional front view showing the right half in section. d. Top view.	**L VI**	**50**

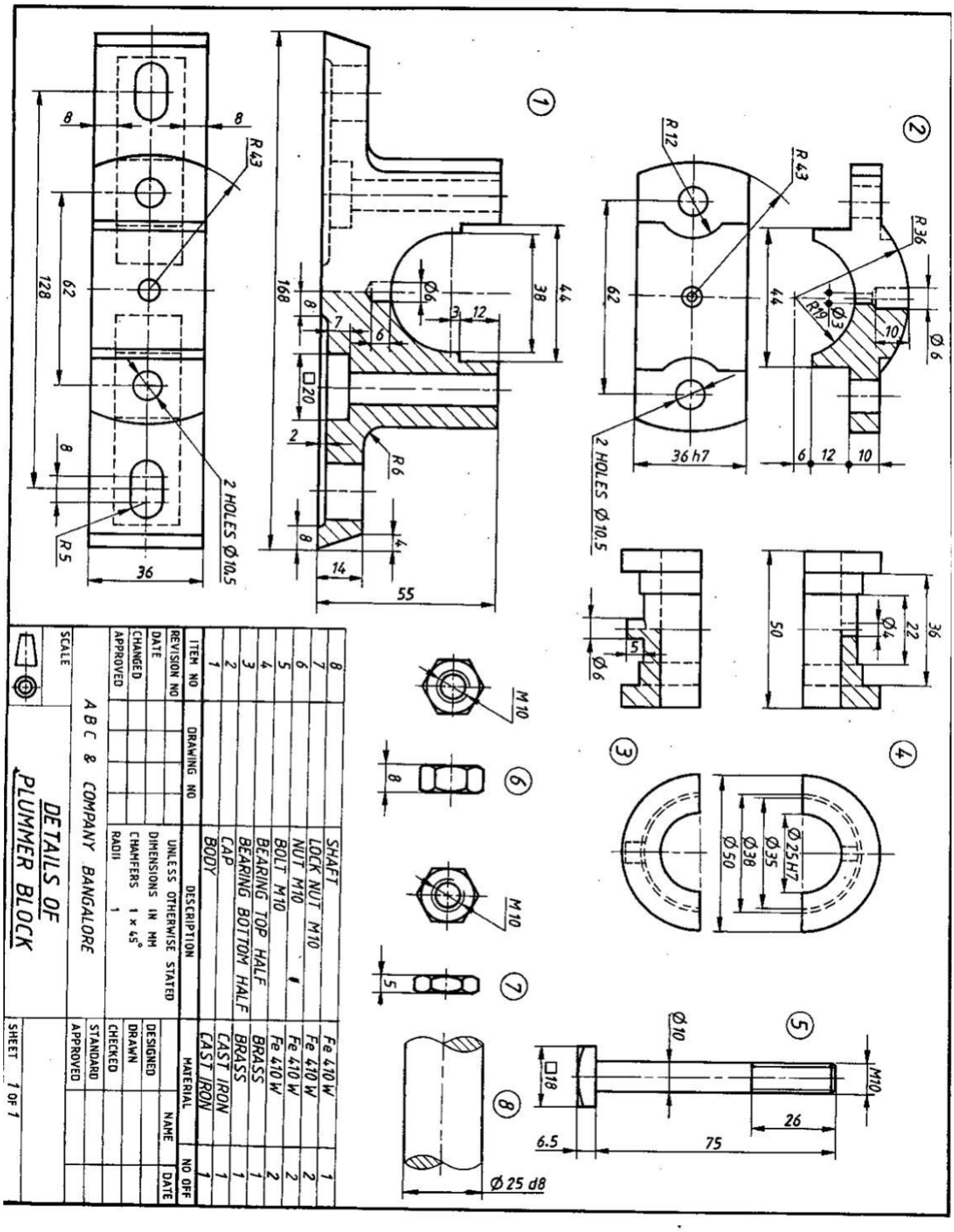

Fig Q.(5): Details of Plummer Block

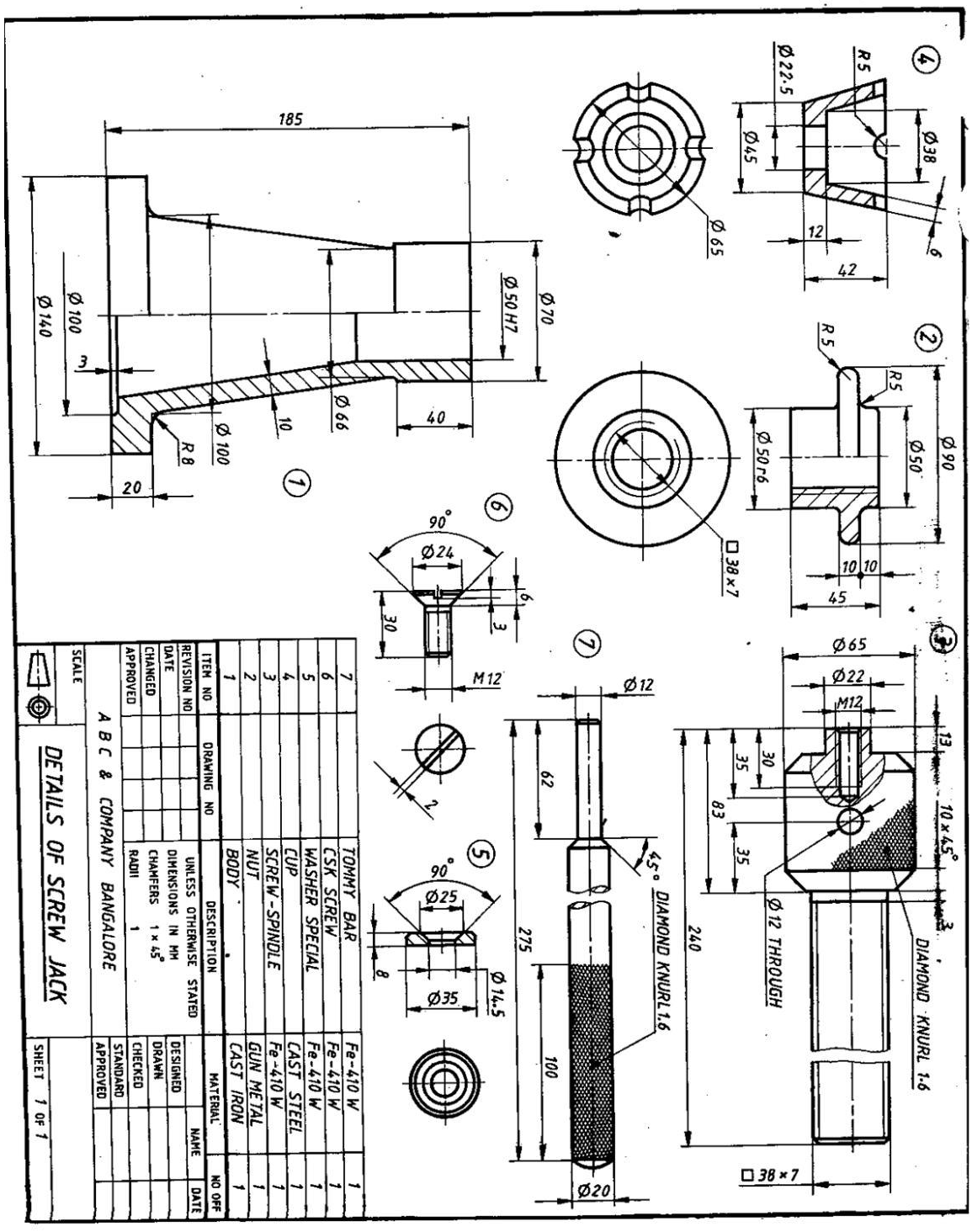

Fig.Q.(6): Details of Screw Jack