U.S.N.										

B.M.S. College of Engineering, Bengaluru-560019

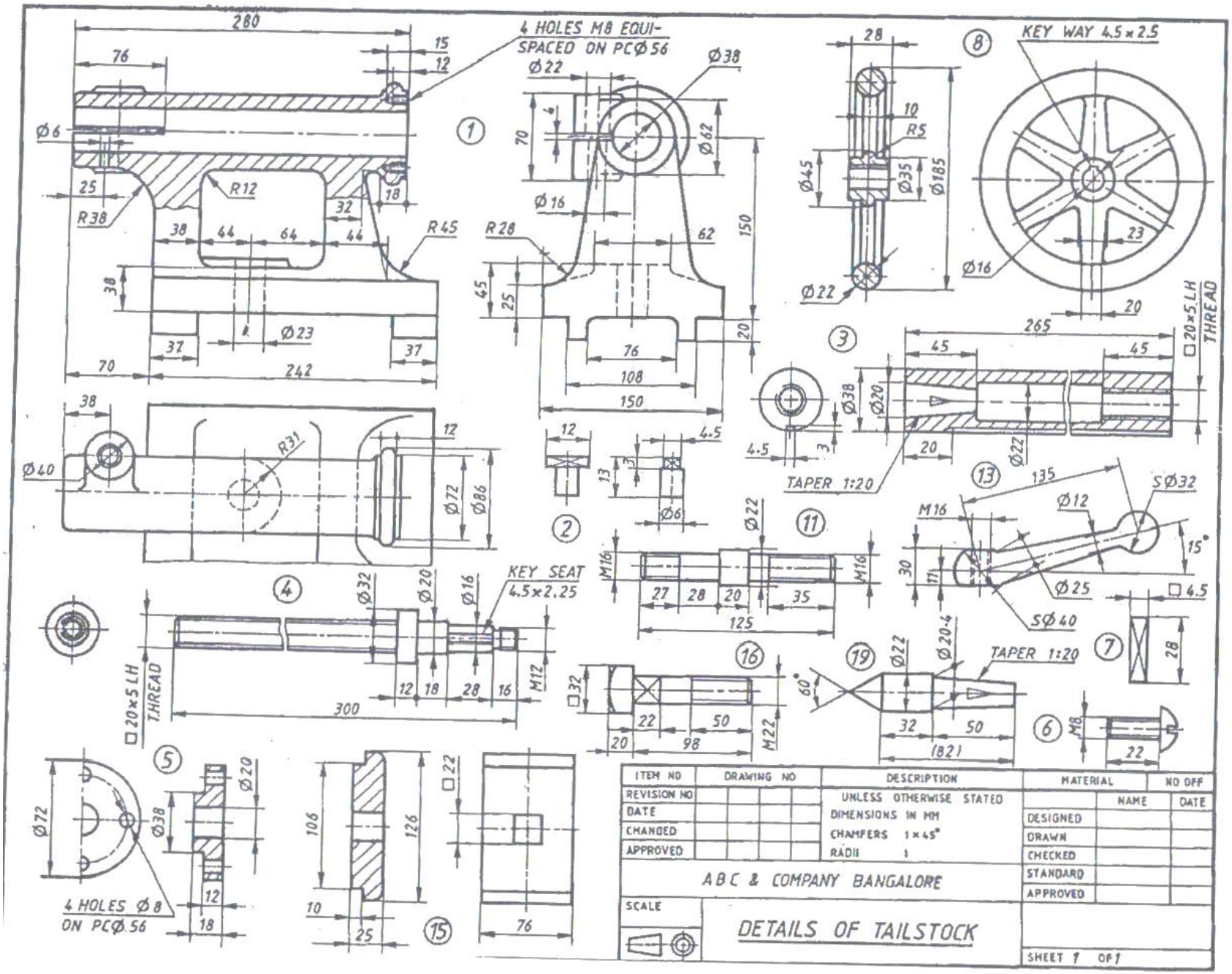
Autonomous Institute Affiliated to VTU

April 2024 Semester End Main Examinations

Programme: B.E. **Semester: III**
Branch: Mechanical Engineering **Duration: 3 hrs.**
Course Code: 23ME3PCCMD / 22ME3AECMD **Max Marks: 100**
Course: Computer Aided Machine Drawing

Instructions: 1. **Answer all questions.**
2. Use first angle projection only.
3. Missing data if any may be suitably assumed.
4. All dimensions are in mm.
5. Important dimensions are to be shown in the assembly drawing.
6. A suitable scale, if necessary, may be taken.

		MODULE- I	*CO*	*PO*	Marks
1		A hexagonal prism of 60 mm height and 30 mm base side rests with its base on HP such that two of its rectangular faces make equal inclination with VP. The prism is cut by a section plane perpendicular to VP and inclined at 60^0 to HP. The section plane bisects the axis of prism. Draw the front view, sectional top view and the true shape of section.	*CO1*	*PO1*	**20**
		MODULE - III			
2		Detailed component drawings of the Tailstock are shown in **Fig. 2.** Draw the following views showing all the parts assembled. Use 1:1 scale. a) Front view in full section and b) Top view.	*CO2* *CO3*	*PO 1*	**60** **20**


4 HOLES M8 EQUI-SPACED ON PCØ56
KEY WAY 4.5×2.5
KEY SEAT 4.5×2.25
TAPER 1:20
TAPER 1:20
□20×5 LH THREAD
□20×5 LH THREAD
4 HOLES Ø8 ON PCØ56
1
2
3
4
5
6
7
8
11
13
15
16
19
ITEM NO
DRAWING NO
DESCRIPTION
MATERIAL
NO OFF
REVISION NO
DATE
CHANGED
APPROVED
UNLESS OTHERWISE STATED
DIMENSIONS IN MM
CHAMFERS 1×45°
RADII 1
NAME
DATE
DESIGNED
DRAWN
CHECKED
STANDARD
APPROVED
A B C & COMPANY BANGALORE
SCALE
DETAILS OF TAILSTOCK
SHEET 1 OF1

PART NO	DESCRITION	MATERIAL	NO. OFF
1	BODY	CAST IRON	1
2	FEATHER	Fe 410W	1
3	BARREL	CAST IRON	1
4	SCREW SPINDLE	Fe 410 W	1
5	FLANGE	CAST IRON	1
6	SCREW	Fe 410 W	4
7	FEATHER KEY	Fe 410 W	1
8	HAND WHEEL	CAST IRON	1
9*	WASHER M12 STD	Fe 410 W	1
10*	HEX NUT M12	Fe 410 W	1

PART NO	DESCRITION	MATERIAL	NO. OFF
11	STUD	Fe 410 W	1
12*	WASHER M16 STD	Fe 410W	2
13	HANDLE	CAST IRON	1
14	HEX. NUT M16	Fe 410 W	1
15	CLAMPING PLATE	CAST IRON	1
16	SQ. HEAD BOLT	Fe 410 W	4
17*	WASHER M22 STD	Fe 410 W	1
18	HEX. M22	Fe 410 W	1
19	CENTRE	CAST STEEL	1

*NOT DRAWN - COMMERCIAL

Fig.2 Details of Tailstock

******