

BT MRE-V(R/S)-11-24-3455

Reg. No.

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***B.Tech. Degree V Semester Regular/Supplementary Examination in  
Marine Engineering November 2024***

**19-208-0506 MARINE ENGINEERING DRAWING  
(2019 Scheme)**

Time: 4 Hours

Maximum Marks: 60

Course Outcome

On successful completion of the course, the students will be able to:

- CO1: On completion of this course the student will be able to draw the assembly drawing of machine parts given the views of components.
- CO2: Drawing: Advanced marine machinery assembly drawings.

Bloom's Taxonomy Levels (BL): L1 – Remember, L2 – Understand, L3 – Apply, L4 –Analyze, L5 – Evaluate,  
L6 – Create  
PI – Programme Indicators

*(Apply fundamental engineering concepts to solve engineering problems)*

*(Answer ALL questions)*

*(All dimensions are in mm. Assume any missing dimensions suitably)*

**(P.T.O.)**



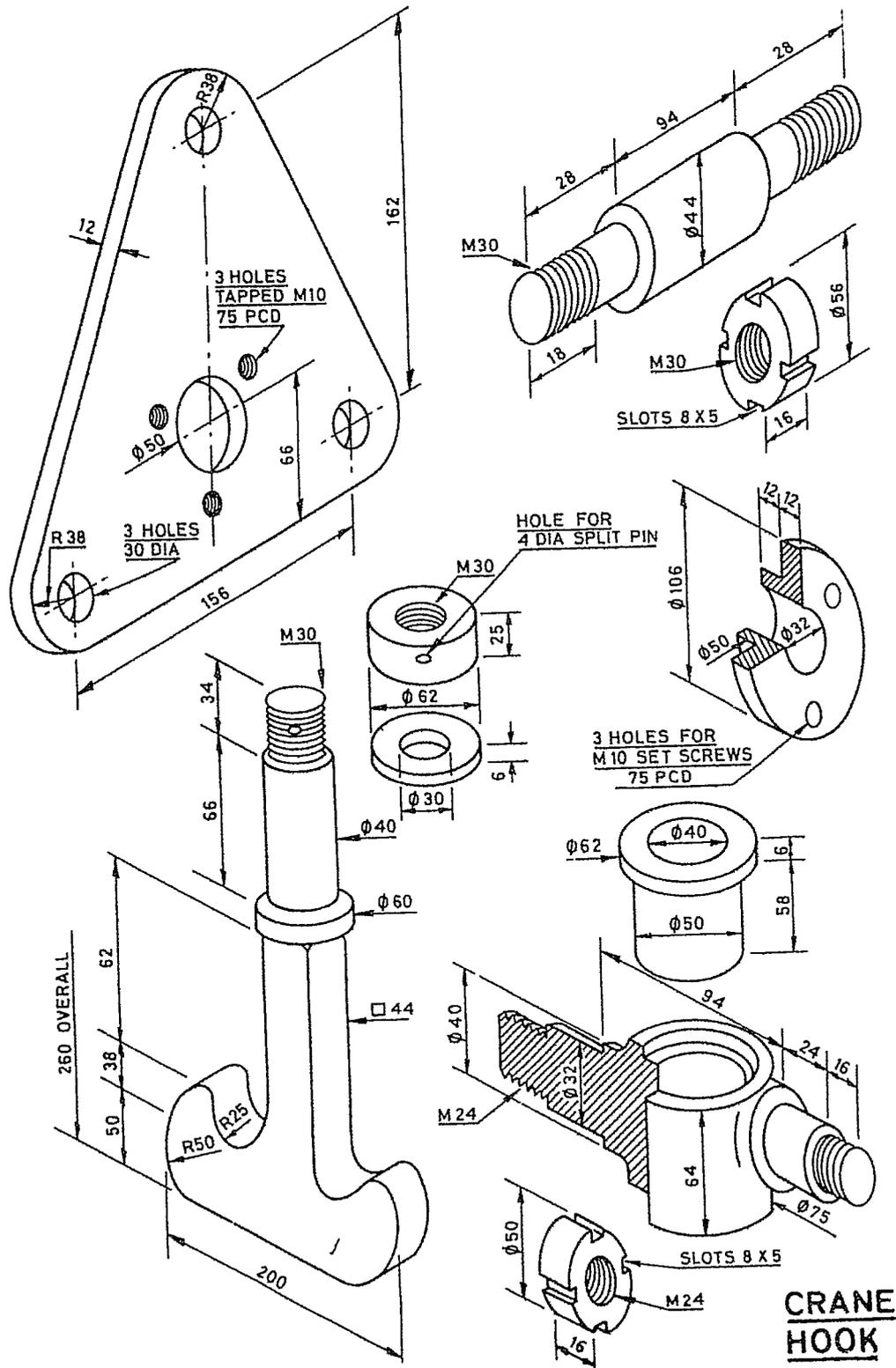
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Marks BL CO PI

II Draw the following view of the crane hook shown in the figure

- (a) Sectional elevation of assembled swivel block through its axis.
- (b) End view in assembled condition.

25 L2 1 1  
10 L2 1 1



(P.T.O.)



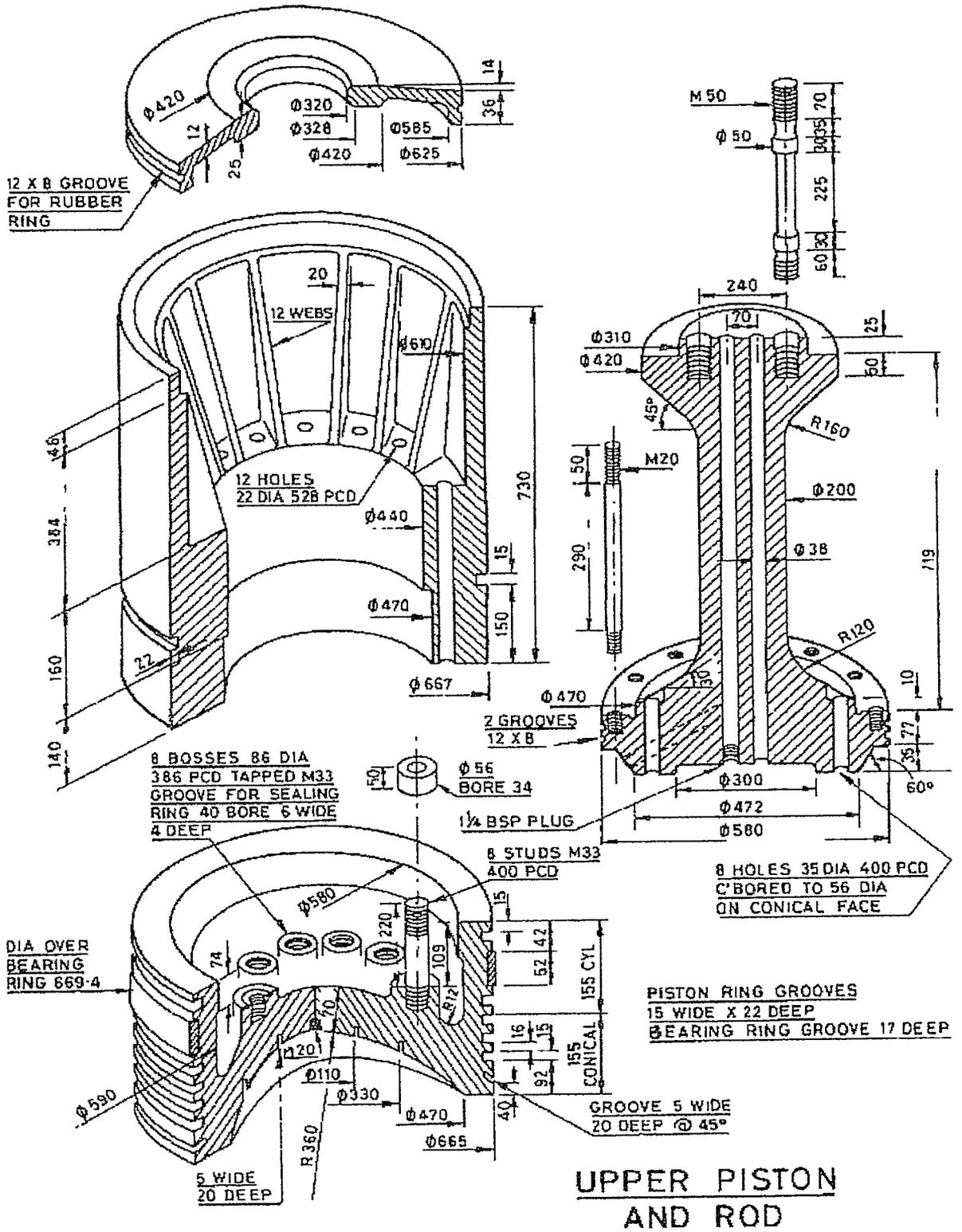
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Marks BL CO PI

IV Draw the following view of the upper piston and rod shown in the figure

- (a) Half sectional elevation with right half in section.
- (b) Plan

30 L3 2 1  
10 L3 2 1



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British Standard Pipe Thread - Parallel Tap								
(BSP/BSPP/BSPT) Inner								
Outer	Diameter	Threads	Pitch	Thread	Thread	Height	Drill	
Nomina	Dash	Diameter	Male	Pitch	per	Diameter	Height	Diameter
l	Size	(mm)	Thread	(mm)	inch	(mm)	(mm)	(mm)
1/8"	02	9.728	8.566	0.907	28	9.147	0.581	8.7
1/4"	04	13.157	11.445	1.337	19	12.301	0.856	11.6
3/8"	06	16.662	14.95	1.337	19	15.806	0.856	15
1/2"	08	20.955	18.631	1.814	14	19.793	1.162	19
5/8"	10	22.911	20.587	1.814	14	21.749	1.162	20.75
3/4"	12	26.441	24.117	1.814	14	25.279	1.162	24.5
7/8"	14	30.201	27.877	1.814	14	29.039	1.162	28
1"	16	33.249	30.291	2.309	11	31.77	1.479	30.5
1 1/8"	18	37.897	34.939	2.309	11	36.418	1.479	35
1 1/4"	20	41.91	38.952	2.309	11	40.431	1.479	39.5
1 3/8"	22	44.323	41.365	2.309	11	42.844	1.479	41.5
1 1/2"	24	47.803	44.845	2.309	11	46.324	1.479	45
1 3/4"	28	53.746	50.788	2.309	11	52.267	1.479	51
2"	32	59.614	56.656	2.309	11	58.135	1.479	57
2 1/4"	36	65.71	62.752	2.309	11	64.231	1.479	63
2 1/2"	40	75.184	72.226	2.309	11	73.705	1.479	72.5
2 3/4"	44	81.534	78.576	2.309	11	80.055	1.479	79
3"	48	87.884	84.926	2.309	11	86.405	1.479	85.5

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