

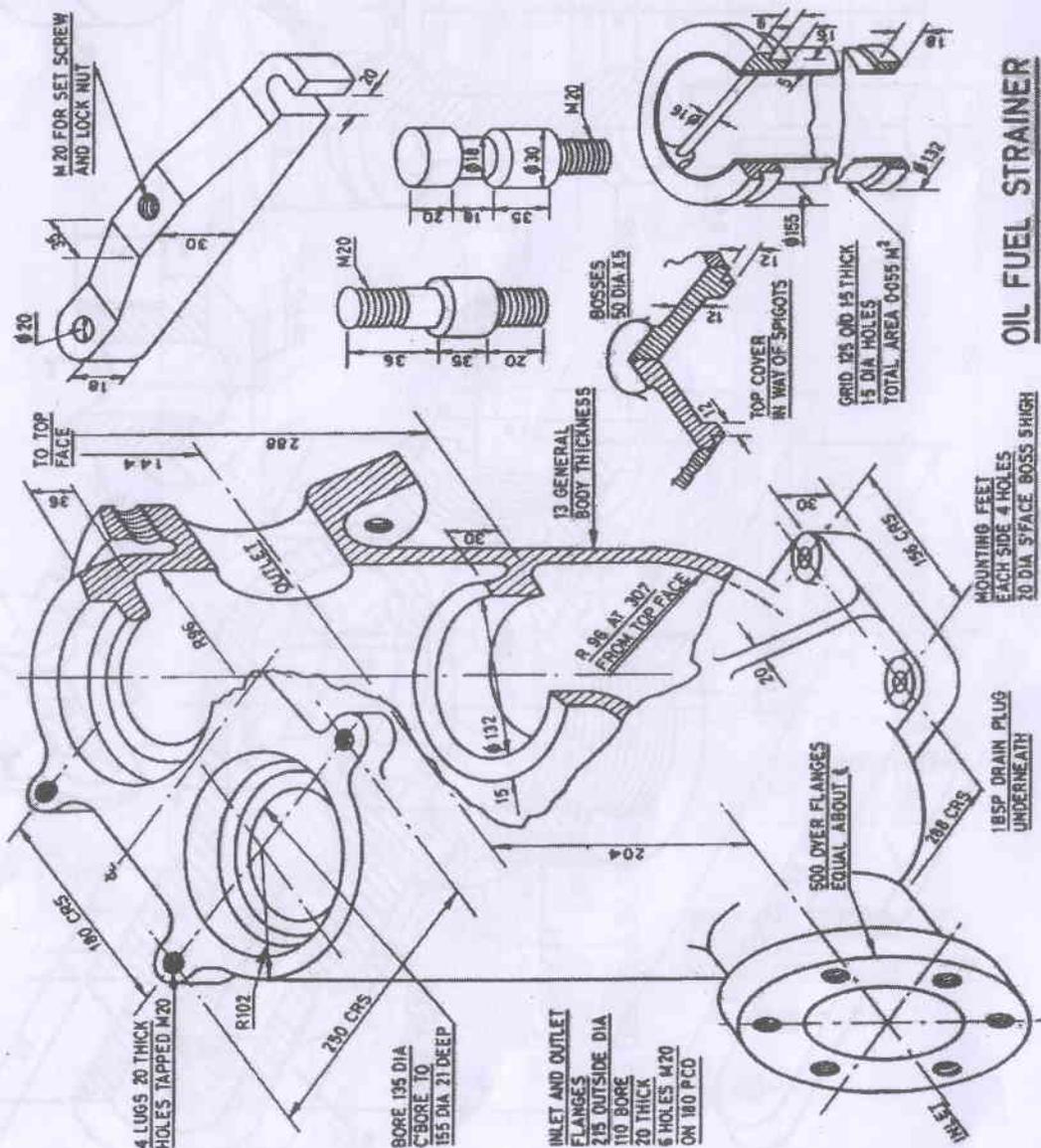
**B.Tech. Degree V Semester Regular Examination in
Marine Engineering December 2021**

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

Time: 4 Hours

Maximum Marks: 60

- I. Figure gives the details of marine oil fuel strainer. Draw:
- (a) Sectional elevation through inlet and outlet branches showing all parts assembled. (25)
 - (b) Plan view. (10)

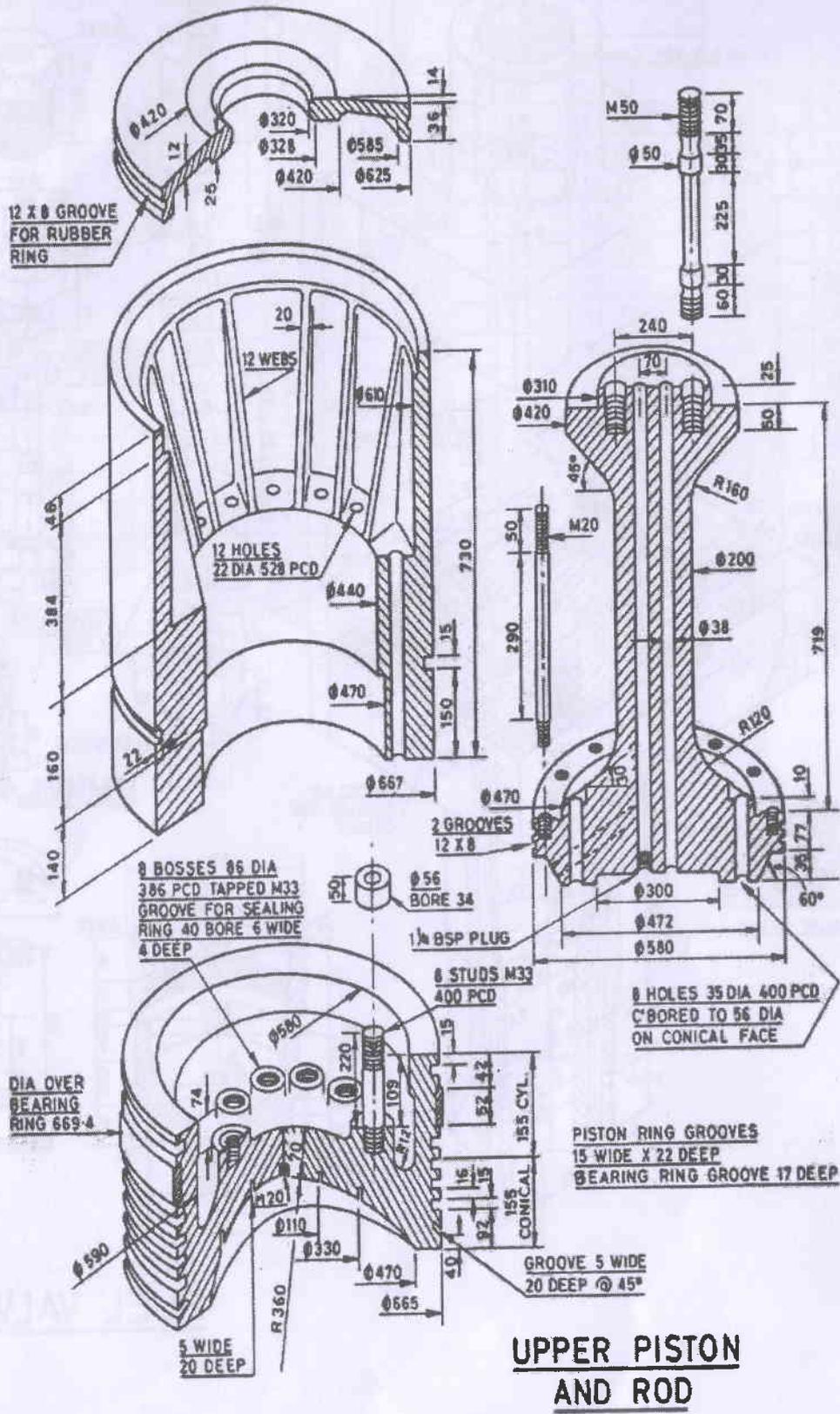


OR

(P.T.O.)

BT MRE-V(R)-12.21-1058

- III. Figure gives the details of marine two stroke diesel engine piston. Draw: (30)
- (a) Elevation in section through piston cooling inlet and return ports in rod, (10)
 - (b) Plan view with skirt removed.



OR

(P.T.O.)

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British Standard Pipe Thread - Parallel (BSP/BSPP/BSPT) Inner						Tap				
Outer		Diameter		Threads		Pitch		Thread		Drill
Nomina l	Dash	Diameter	Male Thread	Pitch	per	Diameter	Height	Diameter		
Size	Size	(mm)	(mm)	(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		
