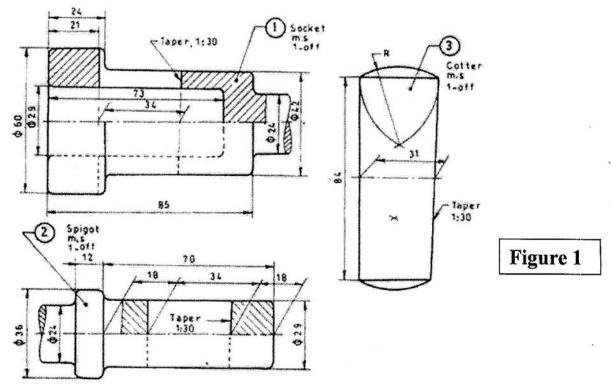
Roll No.	Total No. of Pages: 05
	Total No. of Questions: 09
	B.TECH (Sem3 rd)
	MACHINE DRAWING
	Subject Code: BTAE-306
	Paper ID: [A1156]
Time: 3 Hrs. Max. Marks: 60	
INSTRUG	CTIONS TO CANDIDATE:
(i)Sec	ction –A, is Compulsory.
(ii)At	tempt any four questions from Section-B.
(iii)A	ttempt any two questions from Section-C.
	<u>Section – A</u>
Q.1. (a)	What do you mean by the term fullering?
(b)	What is the use of foundation bolts?
(c)	why expansion joints are required in a piping system?
(d)	Define the terms-Major Diameter and Minor diameter for a nut.
(e)	type of threads are used for fastening and type of threads are used for transmitting motion.
(f)	Draw the symbols for the following welded joints along with the illustrations.
	- Square Butt Weld - Fillet Weld
(g)	What is the advantage of using angular Plummer block over simple Plummer Block?
(h)	Name two parts reciprocating parts in an IC engine.
(i)	What is the function of blow off cock valve?
(j)	Differentiate between sunk and saddle key. 10×2
•	<u>Section – B</u>
Q.2.	Draw free hand proportionate front view of the assembly of square headed bolt and hex
•••	nut along with a washer.
Q.3.	Draw Plan of triple riveted lap joint (chain type) for connecting two plates of thickness 9
	mm. Use appropriate empirical relations and show at least 2 rivet heads along each row
	of rivets.Use Pan head rivets in the joint.

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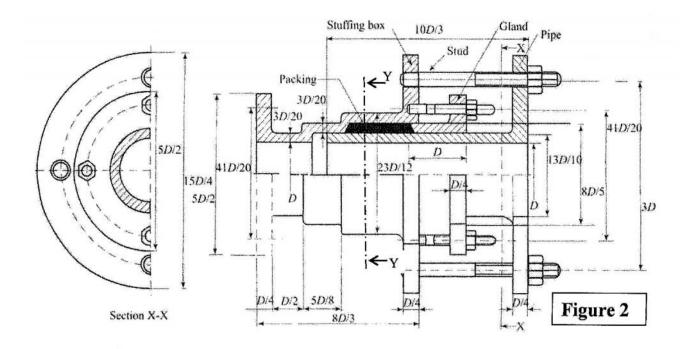
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Q.4. Figure 1 shows the details socket and spigot Joint. Assemble the given parts and draw the front view of assembly.

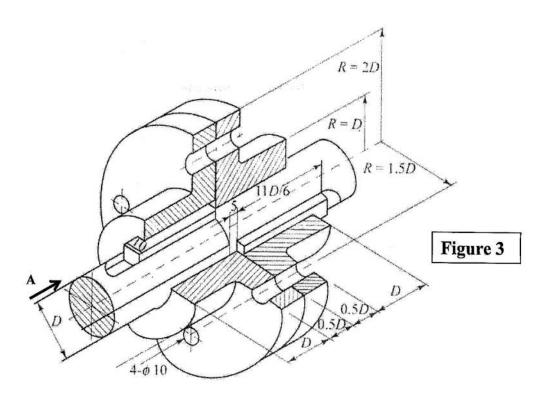


Q.5. Figure 2 shows the details of expansion type pipe joint. Draw full sectional side view of the assembly at section Y-Y.



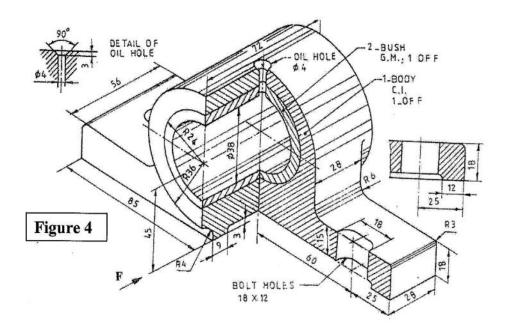
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www.a2zpapers.com Download free old Question papers gndu, ptu hp board, punjab board Q.6. Figure 3 shows the details of unprotected type flange coupling. Assamble the given parts and draw the side view of the assembly looking in the direction of arrow "A". Assume D=30 mm.

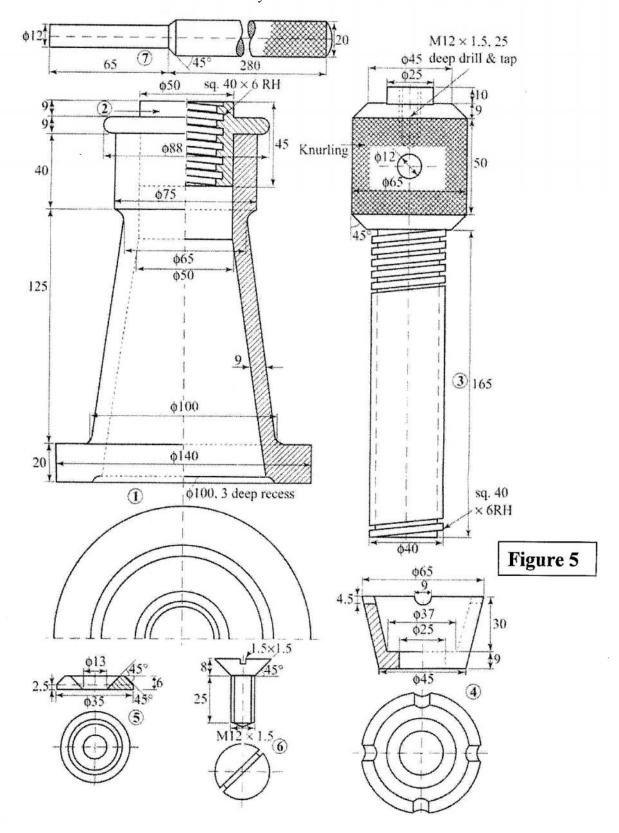


Section –C

Q.7. Figure 4 shows the details of bushed bearing. Draw the full sectional front view of assembly looking in the direction of the arrow marked as "F".



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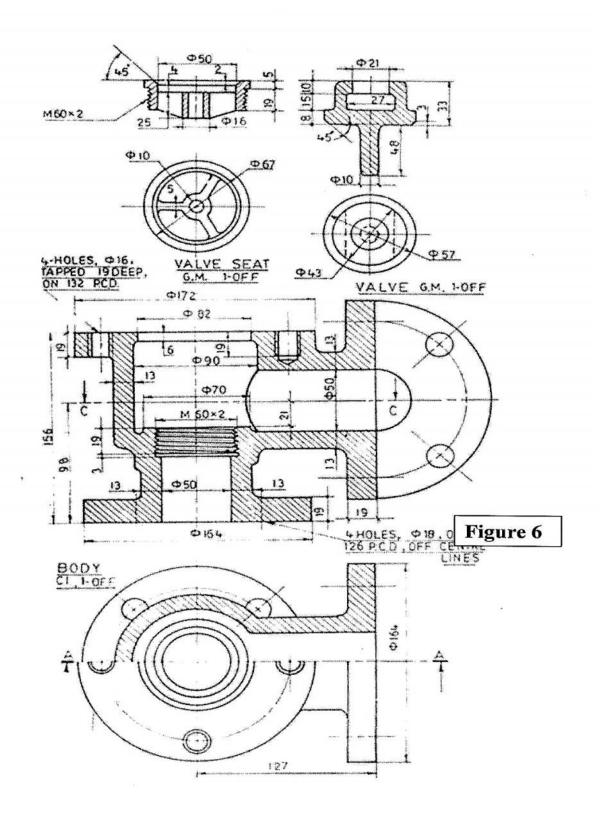


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Q.9.Figure 6 shows partial the details of 50 mm steam stop valve. Assemble the given
components and draw the full sectional front view of assembly. 2×10



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