Roll No.....

**Total No. of Pages: 04** 

## B.TECH, MAY –2014 MACHINE DRAWINGS Paper Code (BTAE-306) Paper Id. [A1156]

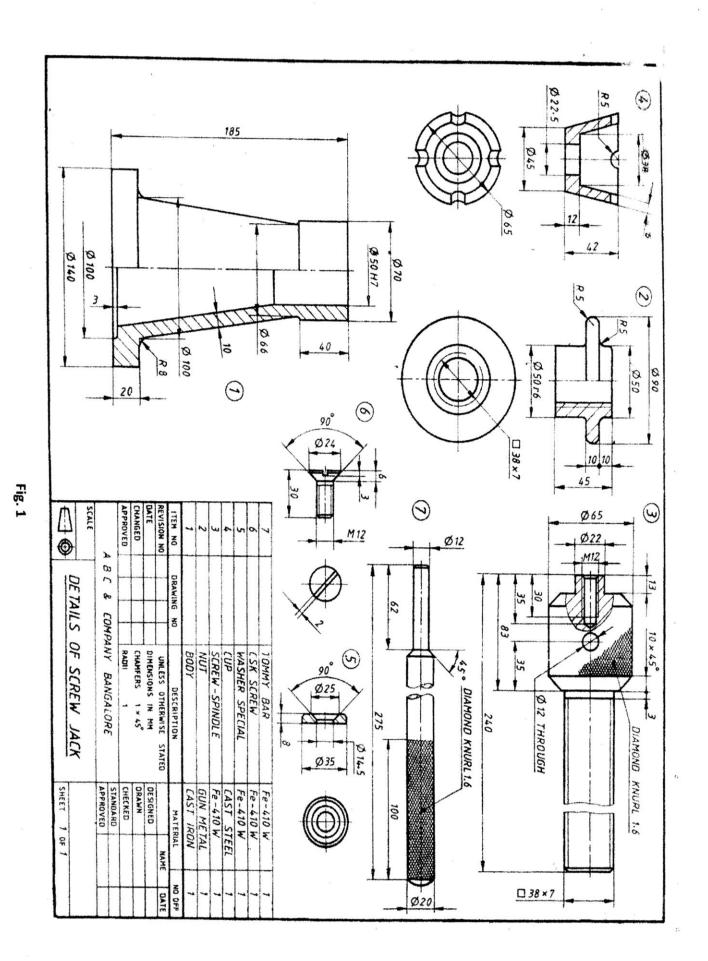
Time Allowed: 4 hrs

Maximum Marks: 60

Instructions to Candidates: There are three sections in this question paper. Attempt all the questions from Section-A; any four questions from Section-B; and any two questions from Section-C. Note: First angle projection to be used. You may assume any missing dimension.

## Section -A

Q1.(a)	With suitable sketch, explain the method of dimensioning of i) circle ii) Angle	2
(b)	Draw conventions for i) internal threads ii) gun metal	2
(c)	Draw symbols to represent removal of material by machining.	2
(d)	What is difference between a 'go limit' and 'not go' limit.	2
(e)	What do you understand by pitch of a thread?	2
(f)	What are the advantages of riveted joints?	2
(g)	Draw symbols for i) convex double-V butt joint ii) Fillet weld	2
(h)	What are multi start threads? Where these are used and why?	2
(i)	Why the ends of the overlapping plates in riveted joint are beveled? State the usual angle of beveling.	2
(j)	What is a stud or stud bolt?	2
Section-B		
Q2.	Explain different methods of dimensioning with the help of figures.	5
Q3.	Draw profile of knuckle threads by taking pitch of 20 mm. Clearly show the calculations and show dimensions on the drawing.	5
Q4.	Draw free hand sketch of single plate friction clutch.	5
Q5.	Draw free hand front view (upper half in section) of a gib and cotter joint.	
Q6.	Explain different methods to draw a circle in auto CAD.	5 <b>5</b>
	Section-C	3
Q7.	Assemble the parts of Screw jack given in Fig.1 and draw the following views:  i) Elevation (Right Half in Section)  ii) Top view	and already
Q8.	Assemble the parts of a <b>Stop valve</b> given in Fig.2 and draw the following views: i) Elevation right half in section ii) Plan	10
Q9.	Assemble the parts of a <b>Plummer block</b> given in Fig.3 and draw the following views:	10
	i) Elevation right half in section ii) Plan	10
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