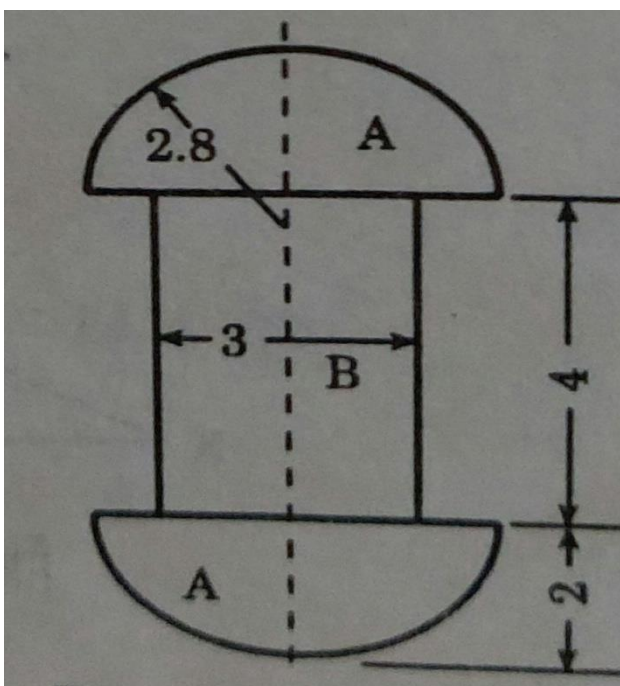
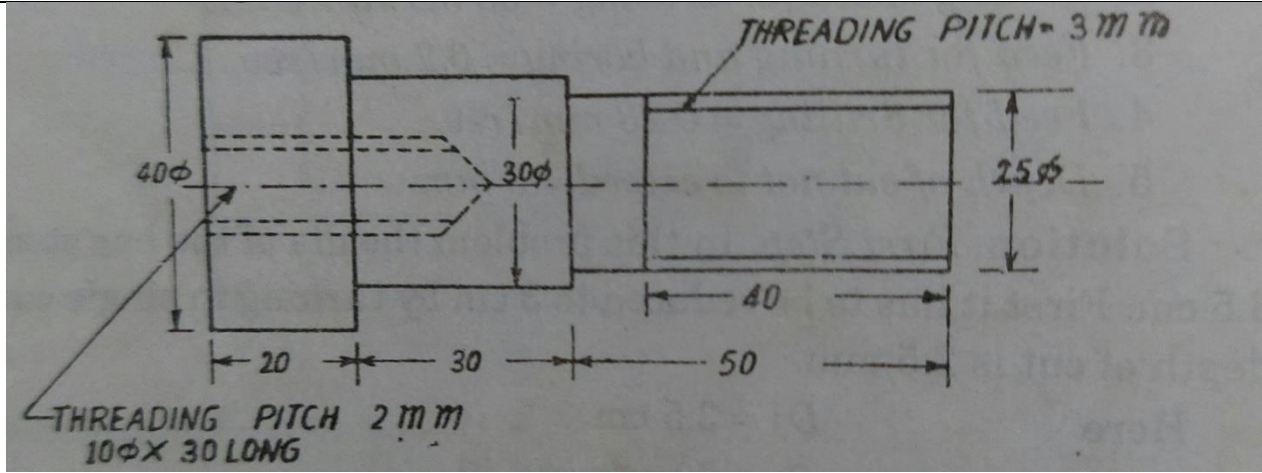


11	What are the Fixed and Variable Overheads?	3
12	Differentiate between Depreciation and Obsolescence.	3
13	.What do you understand by the following,- a) Prime Cost b) Factory Cost c) Sales Price	3
14	Differentiate between feed and depth of cut.	3
15	Discuss various causes of Depreciation.	3
PART C = 20 Marks		
16.	Draw a Block diagram to illustrate the relation between 'Elements of cost' and 'Component of cost'	4
17	Write the name of various methods of calculating depreciation and explain any one of them.	2+2=4
18	Write the following,- a) Trapezoidal rule b) Simpson's rule	2+2=4
19	Write what are the factors affecting welding cost.	4
20	What is the relationship between thickness of plate and size of electrode in gas welding?	4
PART D= 15,Marks		

21	A factory is producing 1000 bolts and nuts per hour on an machine. Its material cost is Rs. 375, labour cost is Rs. 245 and the direct expense is Rs. 80. The factory on cost is 150% of the total labour cost and office on cost is 30% of the total factory cost. If the selling price of each bolt and nut is Rs. 1.30, calculate whether the management is going in loss or gain and by what amount?	5
22	A machine cost is Rs. 10000 and expected life of 5 years with a scrap value of Rs. 1050. Compare the depreciation fund as obtained by straight line method and diminishing balance method.	5
23	<p>Calculate the number of rivets of dimensions as shown in the figure which can be manufactured from 4 kg of M.S. Assume that there is no wastage of material. Density of M.S. is 8 gm/cc.</p>  <p>All dimensions are in cm</p>	5
PART E = 20,Marks		
24	<p>Find the machining time to complete the job as shown in the figure from the basic raw material of 50 mm diameter and 100 mm length.</p> <p>Assume:</p>	10



All dimensions are in mm
 Cutting speed for turning = 30 m/min
 Feed = 1 mm/rev
 Depth of cut = 2.5 mm
 Cutting speed for thread cutting = 9m/min
 Cutting speed for drilling = 30 mm/rev
 Feed for drilling = 0.2 mm/rev

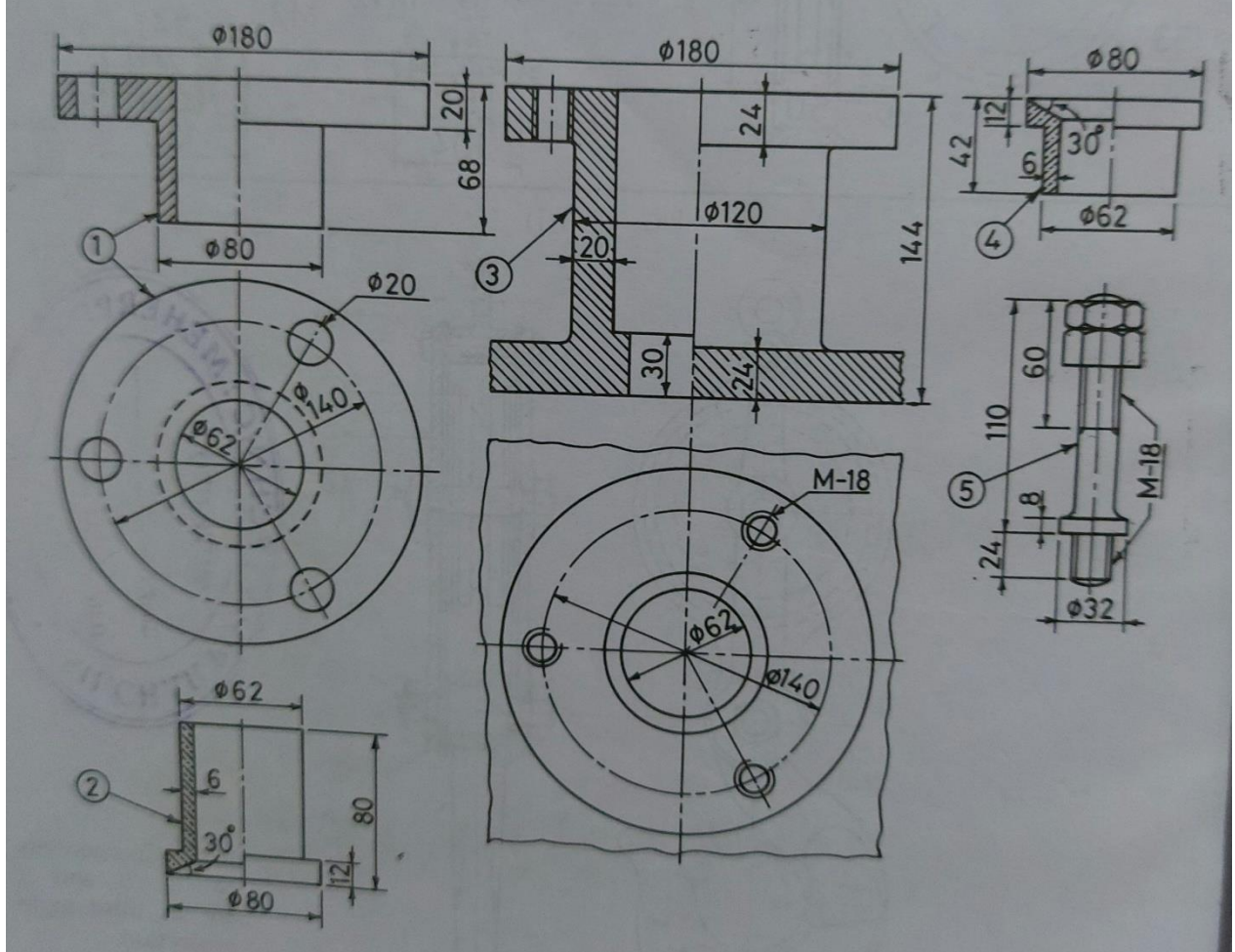
25

Draw in free hand half sectional front view of a tool post and give the approximate dimensions and also write the bill of materials.

OR

Details of a stuffing box are given in the figure. Draw the sectional front view of the stuffing box with all parts assembled together and give all the dimensions.

10



All dimensions are in mm

XXXXXX-----XXXXXXXXX