

**II B. Tech II Semester Supplementary Examinations, November - 2019**  
**MACHINE DRAWING**

(Com to ME, AME)

Time: 3 hours

Max. Marks: 70

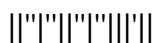
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- Note: 1. Question Paper consists of two parts (**Part-A** and **Part-B**)  
2. Answer any Two questions in **Part-A**– 10x2 = 20 marks  
3. Question from **Part-B** is compulsory - 50x1= 50 marks
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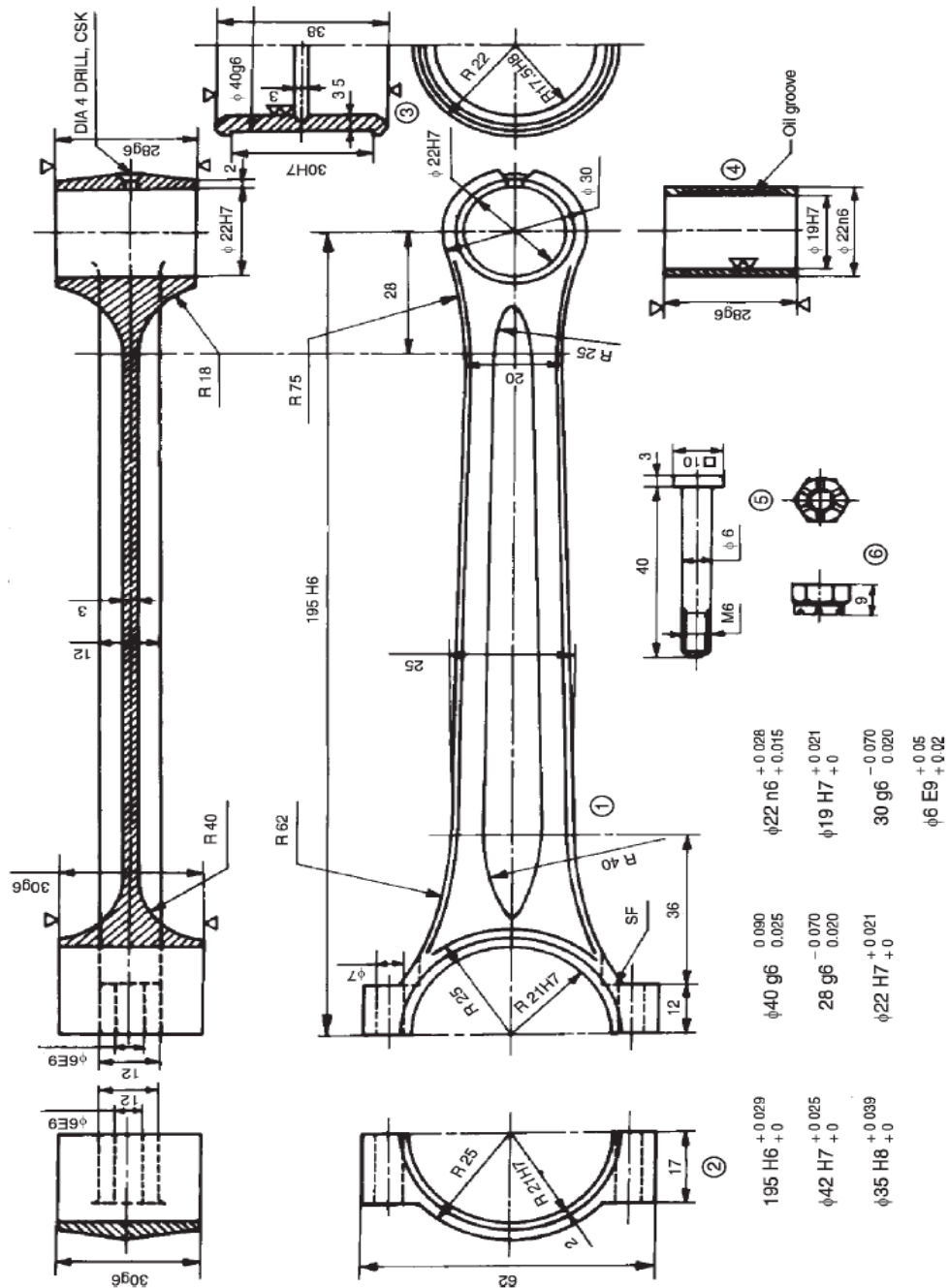
**PART -A**

1. a) Sketch the following forms of nuts with proportions marked taking D = 20mm. (5M)  
(i) Cap Nut  
(ii) Capstan nut  
b) Draw any two set screw heads taking D = 10mm. (5M)
2. Sketch the sectional view from the front and view from the side of a Half lap muff coupling indicating proportions for connecting two shafts each of diameter 30mm. (10M)
3. Draw (a) half sectional view from the front with left half in section and (b) view from the above of a Solid journal bearing supporting a shaft of diameter 25mm. (10M)

**PART -B**

4. Assemble the parts of the petrol engine connecting rod, shown in Fig. 1 and draw the following views: (50M)  
(i) Half sectional view from the front, and  
(ii) View from above.





**Fig. 1** Details of petrol engine connecting rod

## Parts list

Part No.	Name	Matl.	Qty.
1	Rod	FS	1
2	Cap	FS	1
3	Bearing brass	GM	2
4	Bearing bush	P Bronze	1
5	Bolt	MCS	2
6	Nut	MCS	2

