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Roll No. 181734/171734/121734
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3rd SEM./ Mechanical Engg
Subject : Mechanical Engg Drawing

Time : 3 Hrs.

M.M. : 100

SECTION-A

Note: Very short Answer type questions. Attempt any 10 questions out of twelve. (10x2=20)

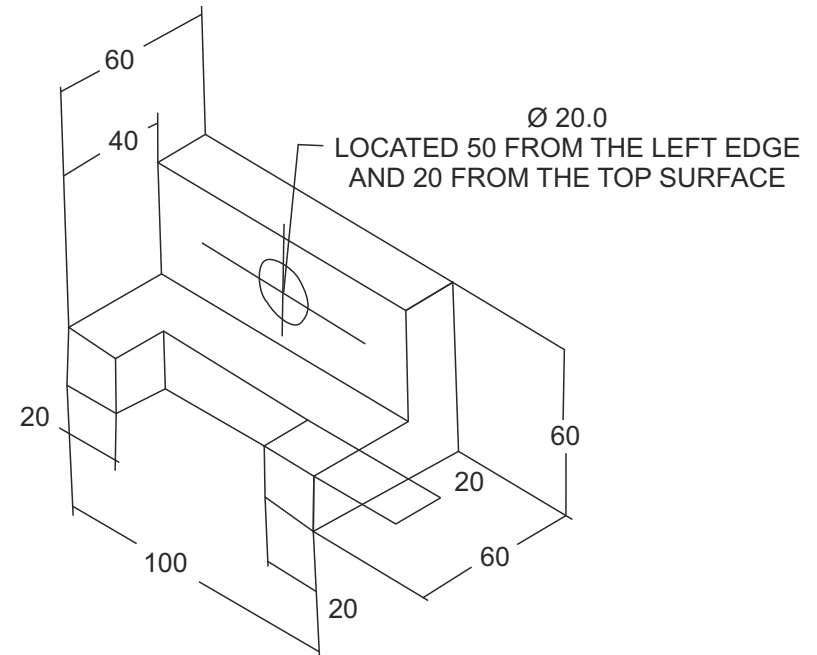
- Q.1 Give the need of Limits in mass production. (CO1)
- Q.2 Define allowance. (CO1)
- Q.3 What is the need of giving tolerances to the parts? (CO1)
- Q.4 Define interference fit. (CO1)
- Q.5 What do you mean by shaft basis system? (CO1)
- Q.6 Give one application where universal coupling is used? (CO3)
- Q.7 What is the use of bearings? (CO2)
- Q.8 Give the material used for manufacturing pulley. (CO2)
- Q.9 What are the uses of expansion joint? (CO2)
- Q.10 Give the need of drilling jig. (CO4)
- Q.11 Which part of IC engine is connected to the big end of connecting rod? (CO5)
- Q.12 Define dedendum (CO6)

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SECTION-B

Note: Long answer type questions. Attempt any four questions out of five questions. (20x4=80)

Q.13 Draw at least two views of L-wall bracket as shown in figure below in first angle projection.



- Q.14 Explain any five gear terminologies with their supporting free hand sketches. (CO6)
- Q.15 Assemble the parts of Screw jack given in fig. 1 and draw the Elevation (Right half in section)- Assume and missing dimension (CO4)

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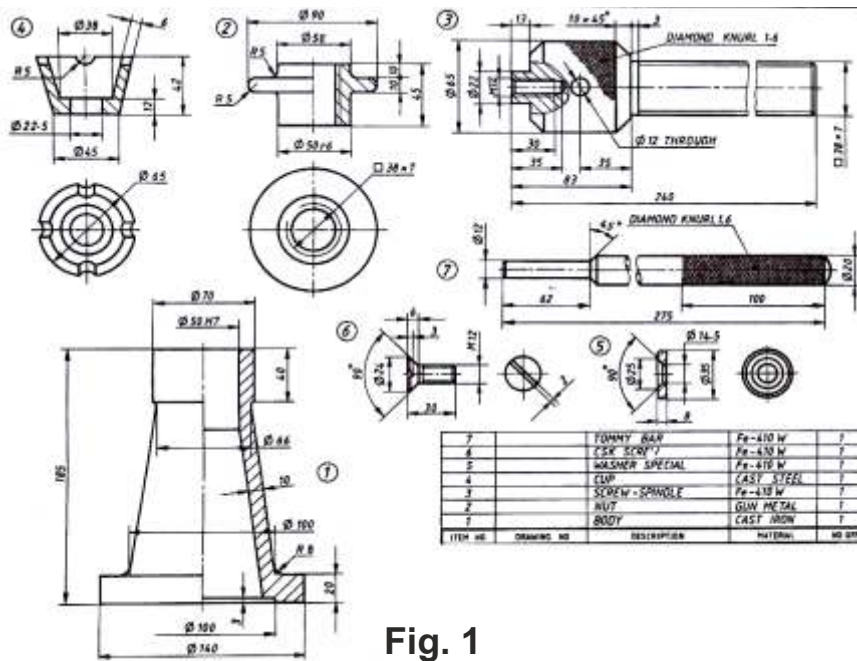


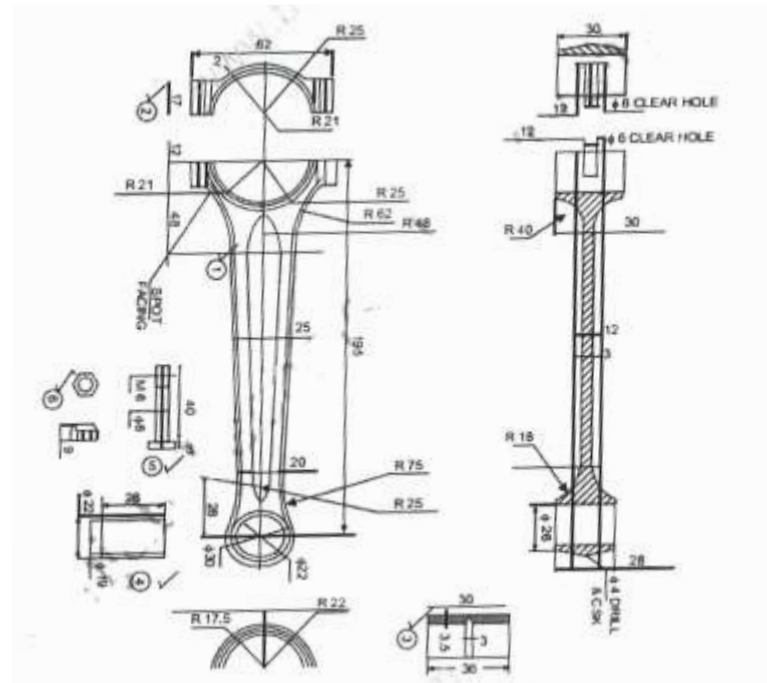
Fig. 1

Q.16 Draw the labelled assembled front view of the petrol engine connecting rod from the given figure -assume any missing dimension (CO5)

Part list

Part No	Name	Material	Qty
1	Rod	Forged steel	1
2	Cap	Forged steel	1
3	Bearing brass	Gun metal	2
4	Bearing bush	Phosphor bronze	1
5	Bolt	Medium carbon steel	2
6	Nut	Medium carbon steel	2

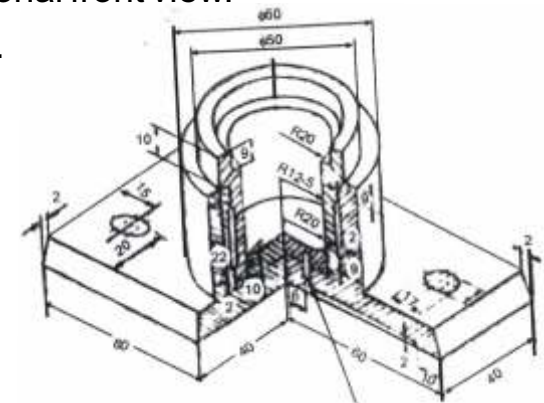
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Q.17 Figure below shows the pictorial view of a FOOT STEP BEARING. (CO2)

Draw to a conventional scale the following :

- Full sectional front view.
- Top View.



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