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Roll No.

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**3rd Sem / Agri, Mech, Prod, T&D, CNC, CAD/CAM,
GE Metallurgy, Pack, Tech, Printmaking Tech., Mech
(Ad. Manu Tech.), Mech Engg (Fabrication Tech)**

**Subject:- Mechanical Engineering Drawing /
M/c Drg.**

Time : 3Hrs.

M.M. : 100

SECTION-A

Note: Very short answer type questions. Attempt any 10 parts out of twelve parts. $(10 \times 2 = 20)$

- Q.1 a) What are unilateral limits? (CO1)
b) Define lower deviation. (CO1)
c) What is hole basis system? (CO1)
d) Name parts of universal coupling. (CO1)
e) How many fork's are there in universal coupling? (CO3)
f) Define foot step bearing. (CO3)
g) Name different types of pipes. (CO2)
h) Write the advantages of plastic pipes. (CO2)
i) What is the function of a jig? (CO4)
j) What is the function of tool holder in lathe machine? (CO5)
k) Why a blow off cock used in a boiler? (CO5)
l) Define dedendum of gear. (CO6)

(1)

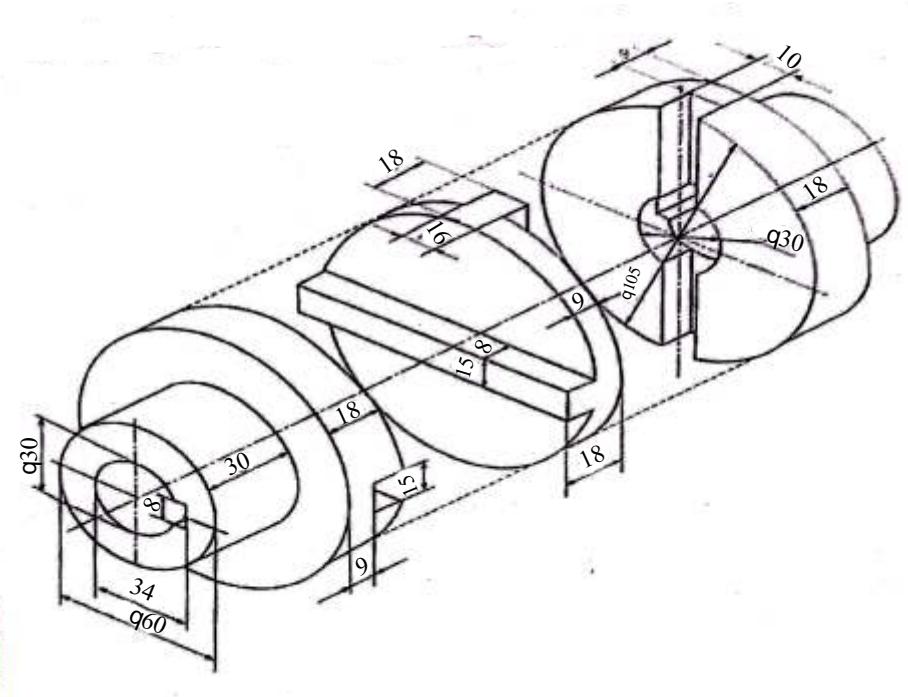
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SECTION-B

Note: Long answer type questions. Attempt any four questions out of five questions. Assume missing dimensions. $(20 \times 4 = 80)$

- Q.2 Draw the sectional front view and side view of an Oldham's coupling as shown below which joins two 30mm diameter shafts, the axes of which are parallel to each other and 10mm apart. (CO3)



(2)

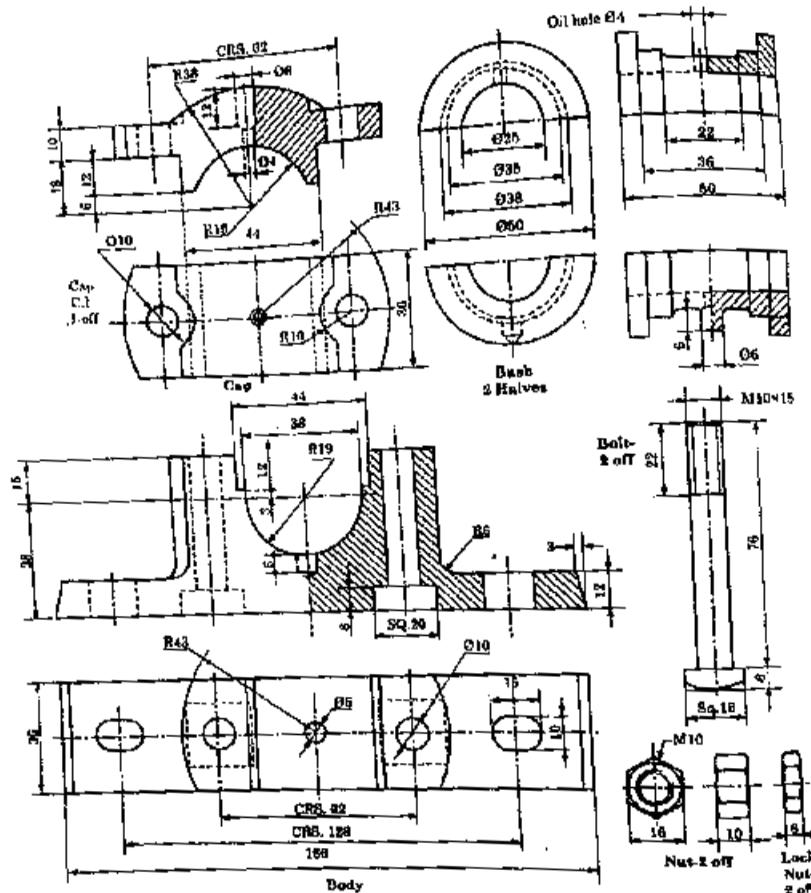
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Q.3 Fig shows the detail of a Plummer block. Assemble all the parts together and draw

a) Front view

b) Top view

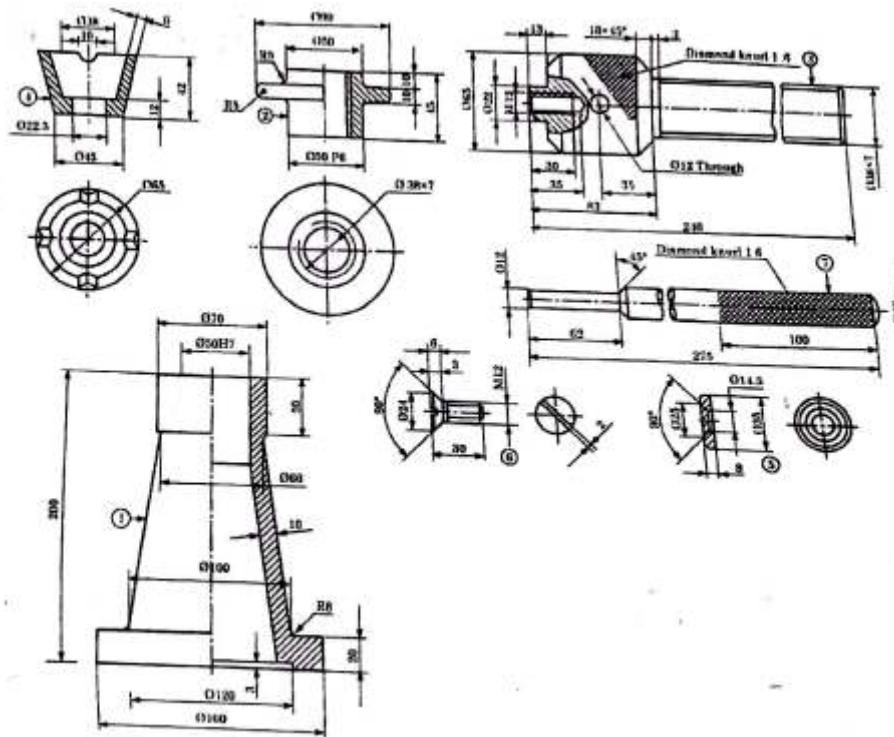


Q.4 Draw the front elevation full in section of a flanged joint which connects two 100mm cast iron pipes. (CO2)

(3)

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Q.5 Figure below shows the parts of screw jack.
Assemble the given components and draw the full section a front view of assembly. (CO6)



Q.6 Give the complete nomenclature of gear with neat diagram. (CO6)

- All the dimensions are in mm.
 - Assume suitable dimension of the figure is not clearly visible or not given.

(Note : Course outcome/CO is for office use only)

(3560)

(4)

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