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

Subject : Mechanical Engineering Drawing / M/c Drg.

Time : 3 Hrs. M.M. : 100

SECTION-A

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

Q.1 a) What is mass production? (CO1)

b) Define deviation. (CO1)

c) What are types of tolerances? (CO1)

d) Define bilateral limit. (CO1)

e) Give the types of coupling. (CO3)

f) Write the function of foot step bearing. (CO2)

g) Name different parts of a pulley. (CO3)

h) What is the function of steel pipes. (CO2)

i) Describe connecting rod. (CO5)

j) Write the functions of steam stop valve. (CO5)

k) Which types of threads are used in screw jack? (CO4)

l) What are medium velocity gears? (CO6)

SECTION-B

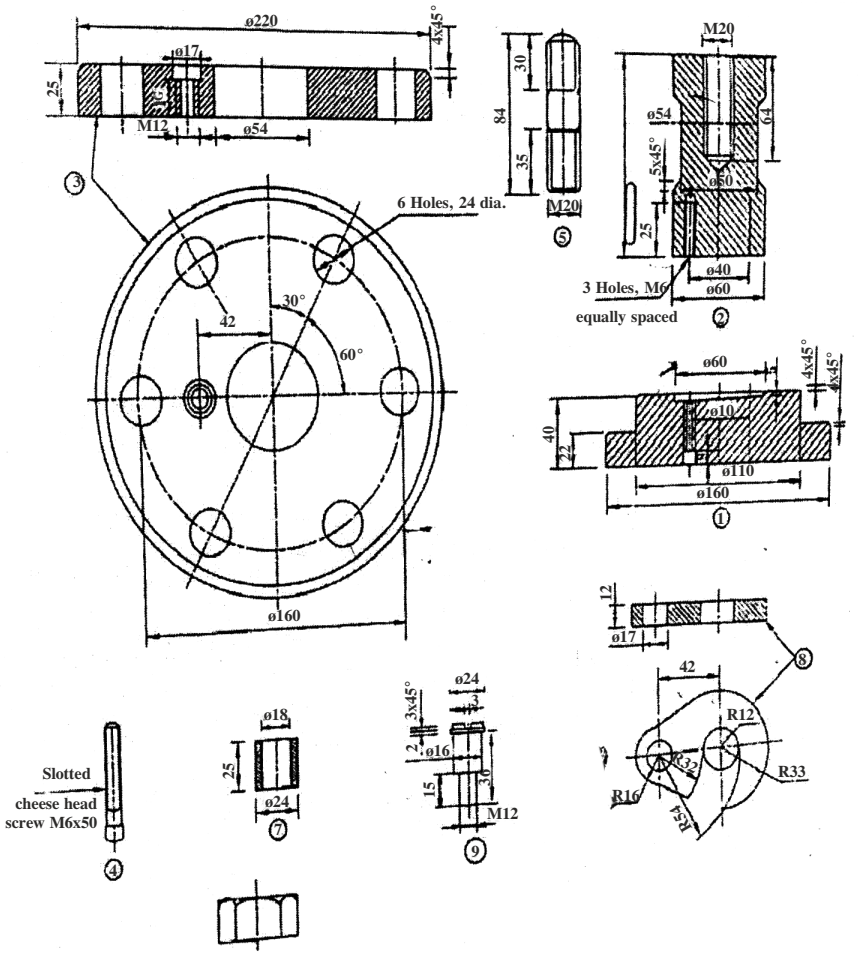
Note: Long answer type questions. Attempt any four questions out of five questions. Assume missing dimensions. (20x4=80)

Q.2 Draw the sectional front view and side view of an Oldham's coupling which joins two 50 mm diameter shafts, the axes of which are parallel to each other, but have a lateral misalignment of 20 mm. (CO3)

Q.3 Draw a neat sketch of fast and loose pulley in a free hand manner, showing any two views. (CO2)

Q.4 Fig. given below shows the detail of a drilling jig. Assemble the parts and draw the following views in first angle projections methods:

i) Front view ii) Top view (CO4)



Q.5 Draw the following views of a petrol engine connecting rod:

a) Sectional front elevation

b) Top view (CO5)

Q.6 Figure below shows the partial details of 50 mm steam stop valve. Assemble the given components and draw the full section a front view of assembly. (CO6)