PART – B
(5×13=65 Marks)

11. a) The dimensions and configuration of the four bar mechanism are shown in figure below P_1A = 300 mm, P_2B = 360 mm, AB = 360 mm. BG = 120 mm. P_1P_2 = 600 mm. The angle between $\angle AP_1P_2$ = 60°. The crank P_1A has an angular velocity of 10 rad/s and angular acceleration of 30 rad/s², both clockwise. Determine the angular velocities and angular acceleration of P_2B and AB and the velocity and acceleration of the points B and G.

(OR)

b) Draw the cam profile for a knife-edge follower with the following data :
   i) Cam lift = 40 mm during 90° of cam rotation with simple harmonic motion.
   ii) Dwell for the next 30°.
   iii) During the next 60° of cam rotation, the follower returns to its original position with simple harmonic motion.
   iv) Dwell during the remaining 180°.

The radius of the base circle of cam is 40 mm. Determine the maximum velocity of the follower during its ascent and descent, if the cam rotates at 240 r.p.m.

12. a) Two equal involute gear wheels of 20° pressure angle have 20 teeth each. Calculate length of arc of contact if the addendum was standard and equal to one module. Pitch of teeth is 6 mm of diameter per tooth. What should be the addendum, if the arc of contact is to be maximum possible ? What is the length of arc of contact ?

(OR)

b) In the planetary gear train shown in below figure, gear A is the driver and gears B and D are compounded. Gears E and C are internal gears with C as the fixed gear. Number of teeth on gears are : T_A = 20; T_B = 60; T_C = 140;

Fitting Machine Exam N1

Peter Smid

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