

Fourth Semester B.E. Degree Examination, December 2011
Kinematics of Machines

Time: 3 hrs.

Max. Marks:100

*Note: Answer any FIVE full questions, selecting
at least TWO questions from each part.*

PART – A

1. a. Define the following, with sketches:
 i) Link ii) Mechanism iii) Machine iv) Inversion. (08 Marks)
 b. Explain: i) Lower pairs ii) Higher pairs. (06 Marks)
 c. Describe with a neat sketch, the crank and slotted lever mechanism, an inversion of a slider crank mechanism. (06 Marks)
2. a. Explain the Whitworth quick return motion mechanism, with a neat sketch. (10 Marks)
 b. Derive the expression for necessary condition of correct steering. Explain with a neat sketch, the Ackerman steering gear mechanism. (10 Marks)
3. A single slider crank mechanism shown in Fig.Q3, has the crank $CB = 100\text{mm}$ and connecting rod $BA = 300\text{mm}$, with centre of gravity G 100mm from B . The crankshaft has a speed of 75 rad/sec and an angular acceleration of 1200 rad/sec^2 . Find
 i) The velocity of G and the angular velocity of AB .
 ii) The acceleration of G and angular acceleration of AB . (20 Marks)



Fig.Q3

4. a. Locate all the instantaneous centres and find the angular velocity of the link BC . The link dimensions of the mechanism are $AB = 300\text{mm}$, $BC = BD = 360\text{mm}$ and $AD = 600\text{mm}$. The angle $BAD = 60^\circ$. The crank rotates at 100 rpm . [Refer Fig.Q4(a)] (10 Marks)



Fig.Q4(a)

- b. The lengths of the crank and the connecting rod of a reciprocating engine are 200mm and 700mm respectively. The crank rotates in clockwise direction at 120 rad/sec . When the crank is at 30° to TDC, by using the Klein's construction, determine
 i) The velocity and acceleration of the piston ii) Angular velocity and acceleration of the CR. (10 Marks)

Nfitting And Machines Question Paper 24

BM King



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