

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 . (20 Marks)
 ii) The acceleration of G and angular acceleration of AB .



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)

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