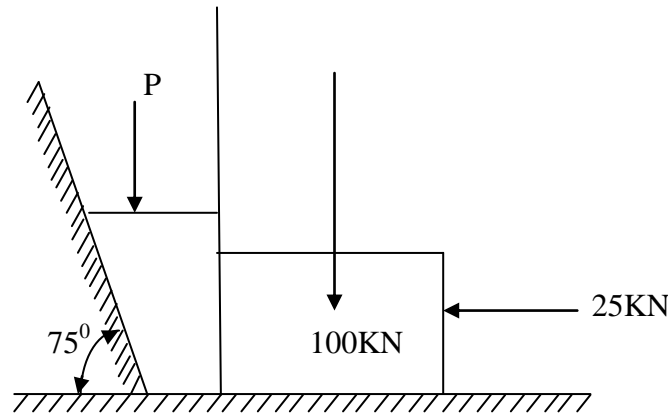


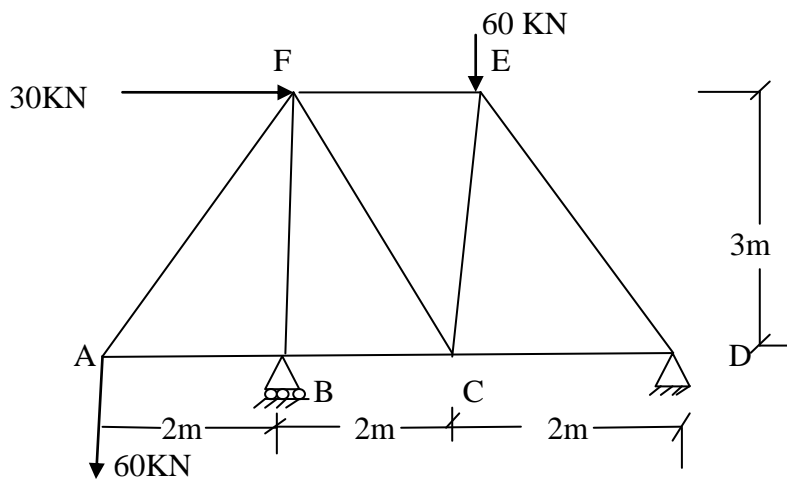
- b) Determine the force p required to start the wedge as shown in fig. the angle of friction for all surfaces of contact is 15° .

12



SECTION -B

- Q.4 a) Explain principle of virtual work. 03
 b) Determine the force in all the members of the frames indicate the nature of the forces of the members. 12



- Q.5 a) What is meant by polar moment of inertia? State its applications. 03
 b) Define radius of Gyration. How it is related to moment of inertia. 03
 c) Find the moment of inertia about the centroidal axis. 09

