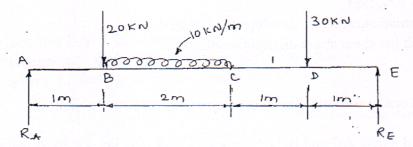
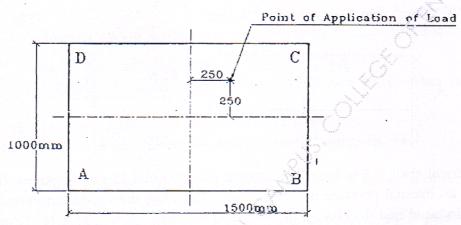
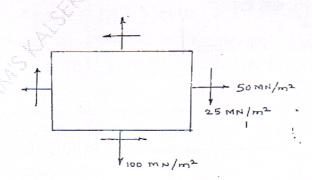
4. (a) Determine the deflection at point B, C and D in the beam shown below. The beam circular cross section of 200mm diameter. Take E = 200 GPa (10)



(b) A rectangular pier is subjected to a compressive load of 450 KN as shown in the Figure. Find the stress intensities at the four corners of the pier. (10)



- 5. (a) A point in a material is subjected to a stress as shown in Fig. Calculate
  - (i) Principle stress
  - (ii) Max shear stress and also the plane along which it acts



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**[TURN OVER** 

(10)