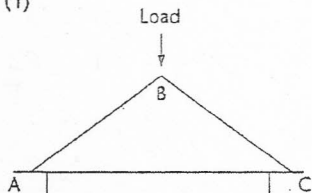


DESIGN ACTIVITIES—STRUCTURES ANALYSIS (COMPRESSION, TENSION, AND BENDING)

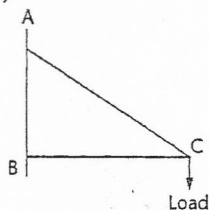
Apply what you have learned in the previous activities and analyze the structures shown below to determine which of the components are under tension, compression, and bending forces. Add arrows to designate the direction of force acting upon each structural component.

(1)



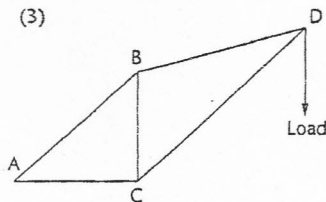
AB _____
BC _____
AC _____

(2)



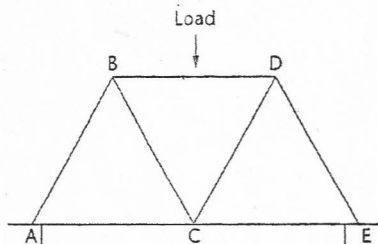
AB _____
BC _____
AC _____

(3)



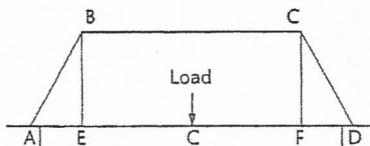
AB _____
BC _____
AC _____
BD _____
DC _____

(4)



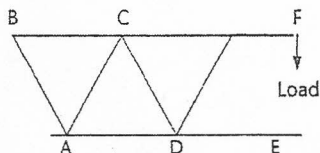
AB _____ CD _____
AC _____ CE _____
BC _____ DE _____
BD _____

(5)



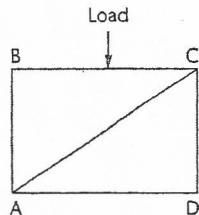
AB _____ BE _____
BC _____ CF _____
CD _____ EF _____
AD _____

(6)



AB _____ CD _____
BC _____ CF _____
AC _____ DE _____
AD _____

(7)



AB _____ AC _____
BC _____ CD _____
AD _____