

ASSIGNMENT NO: 19

1. A three hinged parabolic arch hinged at the crown and springing has a horizontal span of 12m and a central rise of 2.5m. it carries a udl of 30 kN/m run over the left-hand half of the span. Calculate the resultant at the end hinges.
2. A three-hinged semi-circular arch carries a point load of 100 kN at the crown. The radius of the arch is 4m. Find the horizontal reactions at the supports