NAME:                      S.No.                      ID:

Maximum Marks: 10         Section:08         Time Allowed: 15 minutes
(1) Find the scalar projection and vector projection of \( \vec{b} = 3\hat{i} + 3\hat{j} + 4\hat{k} \) onto \( \vec{a} = -\hat{i} - 2\hat{j} + 2\hat{k} \).
(2) Find a vector perpendicular to the plane that passes through the points P(1, 4, 6), Q(-2, 5, -1) and R(1, -1, 1).