

DELHI PUBLIC SCHOOL, JAMMU
SESSION(2021-22)

CLASS: XI
SUBJECT: MATHEMATICS

Based on your understanding of e-lectures-cum-PPTs, video links and other-e-resources share with you, answer the following question.

Assignment:

- Q1. Evaluate each of the following
i. 8P_3 ii. ${}^{10}P_4$
- Q2. If $P(5, r) = P(6, r - 1)$, find r .
- Q3. If $5P(4, n) = 6P(5, n - 1)$, find n .
- Q4. If $P(n, 5) = 20P(n, 3)$, find n
- Q5. If ${}^nP_4 = 360$, find the value of n
- Q6. In how many ways can the letters of the word 'FAILURE' be arranged so that the consonants may occupy only odd positions?
- Q7. In how many ways can the letters of the word 'STRANGE' be arranged so that
- i. the vowels come together?
 - ii. the vowels never come together? and
 - iii. the vowels occupy only the odd places?