DELHI PUBLIC SCHOOL, JAMMU SESSION (2021-22)

CLASS: XI

SUBJECT: APPLIED MATHEMATICS

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

Assignment:

Q1. Evaluate each of the following

Q2. If
$$P(5, r) = P(6, r - 1)$$
, find r.

Q3. If
$$5 P(4, n) = 6 P(5, n - 1)$$
, find n.

Q4. If
$$P(n, 5) = 20$$
. $P(n, 3)$, find n

Q5. If
$${}^{n}P_{4} = 360$$
, find the value of n

- Q6. In how many ways can be 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?