

Qns 1 A word contains 5 vowels and 5 consonants (all different)
How many words can be formed so that

- (1) all vowels are together Ans 86400
- (2) No two vowels are together Ans 86400
- (3) all vowels never together Ans 3542400
- (4) all the vowels together and all the consonants together Ans 28800
- (5) vowels occupy even places Ans 14400
- (6) vowels and consonants are alternating Ans 28800
- (7) start and end with a vowel Ans 806400
- (8) Start with ~~vowel~~ vowel and end with a consonant Ans 1008000
- (9) Two particular vowels are never together 2903040
- (10) there are always three letters b/w two particular vowels Ans 483840
- (11) 5 ~~letter~~ letter words containing 3 vowels and 2 consonants
- (12) 5 letter words starting and end with a consonant

Qns 2 → word INDEPENDENCE

- (1) total No of words using all letters Ans 1663200
- (2) all the vowels occur together Ans 16800
- (3) all the vowels never occur together Ans 1646400
- (4) Start with I and end with P Ans 12600

Q. 3 Word ALLAHABAD

(1) vowels occupy the even positions Ans 60

(2) both L do not occur together Ans 5880

Q. 4 → Find the rank of the word ZENITH
and SURITI Ans (1) 616 (2) 236

Q. 5 → How many four letter words can be formed
from the word MATHEMATICS Ans 2454

Q. 6 → How many four letter words can be formed
from the word INEFFECTIVE Ans 1422

Q. 7 → Word PERMUTATIONS. Find no. of words
so that there are always 4 letters b/w P and S
Ans 25401600

Q. 8 → Word ~~AGAIN~~ AGAIN
what will be the 5th word Ans NAAIG

Q. 9 → Find Rank of word RANDOM Ans 614

Q. 10 → Word HARYANA

(1) Starts with H and ends with N Ans 20

(2) H is always next to N Ans 120

(3) H & N never together Ans 600

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