

HERAMB COACHING CLASSES

FYBCOM/ MATHEMATICS

Marks: 30

Duration: 1Hr

Date: 24/08/17

ATTEMPT ANY SIX

1) Evaluate the following

i) $9!$ (ii) $7!$ (iii) $9! - 7!$ (iv) $(9-7)!$ (V) $\frac{9!}{7!}$ (vi) $\frac{9!}{7!2!}$ (vii) $\frac{10!}{8!2!}1$

2) How many 3-digit number can be formed from the digits 0,1,2,5 if the repetition of the digit

(i) Is not allowed (ii) is allowed

3) How many 4-letter word with or without meaning, can be formed using the letters of the word RUCHIKA, if

(i) Repetition is not allowed (ii) repetition is allowed

4) Find the distinct permutation of the letters of the words

(i) DIVIJA (ii) SARASWATI (iii) INDIA

5) Out of the 8 consonant and 4 vowels, how many words of 3 consonants and 2 vowels can be formed?

6) A group consists of 8 men and 5 women. Find the number of committee of 5 people that can be formed, if committee consists of 2 women

7) Find the number of ways of selecting 9 balls from 6 red balls , 5 white balls and 7 blue balls if each selection consists of 3 balls of each colour

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