CLASS XI ,MATHS

CHAPTER: 7 .PERMUTATIONS AND COMBINATIONS

WORKSHEET OF   MODULE-2/3

VERY SHORT ANSWER TYPE QUESTIONS

Each question is of 1 mark weightage

1.In an examination there are three multiple choice questions and each question has 4

Choices.Find the total number of choices.

2.find the number of arrangements which can be made out of the letters of the word'

EQUATION'

3.Find the number of words that can be formed out of the letters of the word

'COMMITTEE'

4.Find the number of different four-digit numbers that can be formed with the digits

2,3,4,7 and using each digit only once is ?

5. Compute $\dfrac{12!}{10!2!}$

6.Evaluate $\dfrac{n!}{r!(n-r)!}$, when n $=5$, r $= 2$.

7.Find the number of 4-digit numbers that can be formed using the digits 1,2,3,4,5 if

repetition of digits are allowed.

8.Find the number of permutations of the letters of the word 'ALLAHABAD'.

SHORT ANSWER TYPE QUESTIONS

Each question is of 2 marks

9. Find the number of all four digit numbers using the numbers 0,1,2,3,4,5,6,7,8,9 .

10. Find the value of n such that $n_{P_5} = 42\, n_{P_3}$, n is greater than 4

11. If $(n+2)! = 210\, (n-1)!$, then find n?

12. Find r if $5_{P_r} = 2.\, 6_{P_{r-1}}$

13. Four dice are rolled. Find the number of possible outcomes in which atleast one die shows 2 ?

14. Find the number of arrangements that can be made out of the letters of the word "PROPORTION"?

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