MATHS

BOOKS - HIMALAYA MATHS

(KANNADA ENGLISH)

PERMUTATION AND COMBINATIONS

Question Bank

1. If $15C_{3r} = 15C_{r+3}$ than `r = '

A. a.5

B. b.4

C. c.3

D. d.2

Answer: C

Watch Video Solution

2. If $20C_r = 20C_{r-10}$ than $18C_r =$

A. a.4769

B. b.1512

C. c.816

D. d.480

Answer: C

Watch Video Solution

3. Which of the following is not correct?

A. 1)$nC_r = n-1C_r + n-1C_{r-1}$

B. 2)$r!nC_r = nP_r$

C. 3)$nC_r = n - 1C_r + nC_{n-r}$

D. 4)$nC_r = nC_{n-r}$

Answer: C

Watch Video Solution

4. If ${}^nC_r - 84, {}^nC_{r-1} = 36$ and ${}^nC_{r+1} = 126$

, then n equals :

A. $n = 8, r = 4$

B. $n = 7, r = 5$

C. $n = 9, r = 3$

D. $n = 6, r = 4$

Answer: C

Watch Video Solution

5. The value of $\sum_{r=1}^{n} \frac{nP_r}{r!} =$

A. 2^n

B. $2^n - 1$

C. 2^{n-1}

D. $2^n + 1$

Answer: B

Watch Video Solution

6. $nC_r + 2.\ nC_{r-1} + nC_{r-2} =$

A. $n + 1C_r$

B. nC_{r+1}

C. $n - 1C_{r-1}$

D. $n + 2C_r$

Answer: D

Watch Video Solution

7. If $n + 2C_8 : n - 2P_4 = 57 : 16$ then the value of 'n' is

A. 20

B. 19

C. 18

D. 17

Answer: B

Watch Video Solution

8. How many signals can be made by 5 flags from 8 flags of different colours?

A. a.$8C_5$

B. b.$8C_5 \times 5!$

C. c.5^8

D. d.8^5

Answer: B

Watch Video Solution

9. How many different words each containing 3 vowels and 5 consonants can be formed with 5 vowels and 19 consonants?

A. a. $5C_3 \times 19C_3$

B. b. $5C_2 \times 8!$

C. c. $19C_5 \times 8!$

D. d. $5C_3 \times 19C_5 \times 8!$

Answer: D

Watch Video Solution

10. The number of permutations of 'n' different objects taken r at a time, when a particular element always occur in each arrangement, is

A. $n-1C_r \times (r-1)!$

B. $n-1C_{r-1} \times (r)!$

C. $n-1C_r \times (r)!$

D. $nC_r \times (r)!$

Answer: C

Watch Video Solution

11. The number of different seven digit numbers that can be written using only three digits 1,2 and 3 with the condition that the digit 2 occurs twice in each number is

A. $7P_2.2^5$

B. $7C_2.2^5$

C. $7C_2.5^2$

D. $7C_2.2^7$

Answer: B

Watch Video Solution

12. A polygon has 170 diagnols. How many sides will it have?

A. 17

B. 20

C. 17

D. 30

Answer: B

Watch Video Solution

13. The number of 2×2 matrices having elements 0 and 1 is

A. 8

B. 16

C. 4

D. 6

Answer: B

Watch Video Solution

14. There are 'n' seats round a table numbered $1, 2, 3, \ldots, n$. The number of ways in which $m(\leq n)$ persons can take seat is

A. nC_m

B. $nC_m \times m!$

C. $(m-1)!$

D. $(m-1)! \times (n-1)!$

Answer: B

Watch Video Solution

15. All the letters of the word ' EAMCET " are arranged in all possible ways. The number of such arrangements in which two vowels are adjacent to each other is :

A. 360

B. 144

C. 72

D. 54

Answer: C

Watch Video Solution

16. The straight lines , l_1, l_2 and l_3 are parallel and lie in the same plane . A total number of m points are taken on l : n points on l_2 k points

on l_3 The maximum number of triangle formed with vertices at these points is :

A. $m + n + kC_3$

B. $m + n + kC_3 - mC_3 - nC_3 = kC_3$

C. $mC_3 + nC_3 + kC_3$

D. $m + n + kC_3 + mC_3 + nC_3 + kC_3$

Answer: B

Watch Video Solution

17. The sum of the digits in unit place of all the numbers formed with the help of 3,4, 5,6 , taken all at a time , is :

A. 432

B. 108

C. 36

D. 18

Answer: B

Watch Video Solution

18. The number of ways in which 5 boys and 3 girls can he seated in a row so that each girl is between two boys is

A. 2880

B. 1880

C. 3800

D. 2800

Answer: A

Watch Video Solution

19. The maximum number of points into which 4 circles and 4 st . Lines intersect is :

A. 26

B. 50

C. 56

D. 72

Answer: B

Watch Video Solution

20. The maximum number of points of intersection of 7 circles is

A. 1)40

B. 2)21

C. 3)42

D. 4)41

Answer: C

Watch Video Solution

21. The number of four digit even numbers that can be formed using 0,1,2,3,4,5,6 without repetition

A. 120

B. 320

C. 420

D. 220

Answer: C

Watch Video Solution

22. How many four digit numbers can be formed using digits 1,2,3,4,5 such that atleast one of the number is repeated?

A. $4^4 - 5!$

B. $4^5 - 4!$

C. $5^4 - 4!$

D. $5^4 - 5!$

Answer: D

Watch Video Solution

23. A committee of 6 is chosen from 10 men and 7 women so as to contain atleast 3 men and 2 women. The number of ways this can be done if two particular women refuse to serve on the same committee is

A. 8000

B. 7800

C. 7600

D. 7200

Answer: B

Watch Video Solution

24. In a class of 10 students there are 3 girls. The number of ways they can be arranged in a row, so that no 2 girls are consecutive is $k.8!$, where $k =$

A. 1)12

B. 2)24

C. 3)36

D. 4)42

Answer: A

 Watch Video Solution

25. There are 3 copies each of 4 different books. The number of ways they can be arranged in a shelf is

A. 1)400400

B. 2)440720

C. 3)369600

D. 4)420600

Answer: B

 Watch Video Solution

26. The number of numbers that can be formed by using all the digits from 1,2,3,4,3,2,1 so that odd digits occupy odd places, is

A. 1)12

B. 2)18

C. 3)24

D. 4)36

Answer: A

Watch Video Solution

27. A round table conference is to be held among 20 delegates of 20 countries. The number of ways they can seated, if two particular delegates are never sit together is

A. 1) $17 \times 18!$

B. 2) $18 \times 19!$

C. 3) $\frac{20!}{2}$

D. 4)$19! \times 2$

Answer: D

Watch Video Solution

28. The number of ways in which ten candidates $A_1, A_2, \ldots, A_{10}$ can he ranked, if A_1 is always above A_2 is

A. $2 \times 8!$

B. $9!$

C. $10!$

D. $5 \times 9!$

Answer: D

Watch Video Solution

29. The number of ways in which 5 identical balls can be kept in 10 identical boxes, if not more, than one can go into a box, is

A. 1)$10P_5$

B. 2)$10C_5$

C. 3)5

D. 4)1

Answer: D

 Watch Video Solution

30. Given 5 different green dyes , 4 different blue dyes and 3 different red dyes , the number of combinations of dyes which can be

chosen taking at least one green and one blue dye is

A. 1680

B. 2450

C. 3600

D. 3720

Answer: D

 Watch Video Solution

31. The number of numbers greater than 3000 which can be formed by using the digits 0,1,2,3,4,5 without repetition is

A. 1240

B. 1280

C. 1320

D. 1380

Answer: B

Watch Video Solution

32. A host invites 20 persons for a party. The number of ways they can be seated at a circular table such that two particular persons be seated on either side of the host is

A. $18!$

B. $2.18!$

C. $19!$

D. $2.19!$

Answer: A

Watch Video Solution

33. Ten different letters of alphabet are given. Words with five letters are formed from these give letters.Then the number of words which have at least one letter repeated, is :

A. 69760

B. 30240

C. 9948

D. 10680

Answer: D

Watch Video Solution

34. If $m > n$, the number of ways m men and n women can be seated in a row, so that no two women sit together is

A. $\frac{m!n!}{(m+n)!}$

B. $\frac{(m+n)!}{m!(n+1)!}$

C. $\frac{m!(n+1)!}{(m-n+1)!}$

D. $\frac{m!(m+1)!}{(m-n+1)!}$

Answer: B

35. The number of ways of arranging six + signs and four - signs in a row so that no two - signs occur together is

A. 24

B. 35

C. 44

D. 18

Answer: D

Watch Video Solution

36. Let A be the set with n elements. The number of onto functions from A to A is

A. n^n

B. $n^v - n!$

C. $\frac{n^n}{n!}$

D. $n!$

Answer: C

Watch Video Solution

37. A five digit number divisible by 3 is to be formed using the numbers 0,1,2,3,4 and 5 without repetitions . The total number of ways this can be done is :

A. 936

B. 480

C. 600

D. 216

Answer: D

Watch Video Solution

38. The number of ways in which n distinct balls can be put into three boxes so that no two boxes remain empty is

A. 3^n

B. $3^n - 1$

C. $3^n - 2$

D. $3^n - 3$

Answer: B

Watch Video Solution

39. The number of numbers divisible by 3 that can be formed by four different even digits is (assuming 0 as an even digit)

A. 18

B. 36

C. 24

D. 48

Answer: A

 Watch Video Solution

40. Total number of 6-digit numbers in which all the odd digit appear is

A. $\frac{5}{2} \times 6!$

B. $6!$

C. $\frac{1}{2} \times 6!$

D. $\frac{3}{2}6!$

Answer: C

Watch Video Solution

41. The number of ways of distributing 15 identical toys among 6 children so that each one gets atleast one toy, is

A. 1:2000

B. 2: 2001

C. 3: 2002

D. 4: 2003

Answer: B

Watch Video Solution

42. The number of signals, that can be sent by 5 flags of different colours , taking one or more at a time is :

A. 63

B. 1956

C. 720

D. 21

Answer: A

 Watch Video Solution

43. Ten different letters of alphabet are given.

Words with five letters are formed from these

give letters.Then the number of words which have at least one letter repeated, is :

A. 69760

B. 30240

C. 99748

D. 99784

Answer: B

 Watch Video Solution

44. All the letters of the word ' EAMCET " are arranged in all possible ways. The number of such arrangements in which two vowels are adjacent to each other is :

A. 360

B. 144

C. 72

D. 54

Answer: B

Watch Video Solution

Watch video solution

45. In how many ways a committee consisting of 3 men and 2 women , can be chosen from 7 men and 5 women ?

A. 45

B. 350

C. 4200

D. 230

Answer: B

Watch Video Solution

46. Given 5 different green dyes , 4 different blue dyes and 3 different red dyes , the number of combinations of dyes which can be chosen taking at least one green and one blue dye is

A. 3600

B. 3720

C. 3800

D. 3600

Answer: B

Watch Video Solution

47. The number of words that can be formed out of the letters of the word "ARTICLE" so that the vowels occupy even places is

A. 1440

B. 144

C. $7!$

D. $4C_4 \times 3C_3$

Answer: C

Watch Video Solution

48. The total number of 9 digit numbers which have all different digits is

A. $10!$

B. $9!$

C. $9 \times 9!$

D. $10 \times 10!$

Answer: A

 Watch Video Solution

49. The number of ways in which we can choose a the committee from four men and six women so that the committee includes at least two men and exactly twice as many women as women as men is :

A. 94

B. 126

C. 128

D. none of these

Answer: D

Watch Video Solution

50. The number of 5- digit telephone number having at least one of their digits repeated is :

A. 90000

B. 10000

C. 30240

D. 69760

Answer: C

Watch Video Solution

51. The number of ways in which a team of eleven players can be selected from 22 players always including 2 of them and excluding 4of them is :

A. $16C_{11}$

B. $16C_5$

C. $16C_9$

D. $20C_{11}$

Answer: B

Watch Video Solution

52. The number of parallelograms that can be formed from a set of four parallel lines intersecting another set of three parallel line

intersecting another set of three parallel lines is:

A. 6

B. 18

C. 12

D. 9

Answer: D

Watch Video Solution

53. The number of triangles that are formed by choosing the vertices from a set of 12 points , seven of which lie on the same line, is :

A. 105

B. 15

C. 175

D. 185

Answer: B

Watch Video Solution

54. Everybody in a room shakes hand with everybody else. The total number of handshakes is 66. The total number of persons in the room is :

A. 11

B. 12

C. 13

D. 14

Answer: A

 Watch Video Solution

55. A five digit number divisible by 3 is to be formed using the numbers 0,1,2,3,4 and 5 without repetitions . The total number of ways this can be done is :

A. 216

B. 600

C. 240

D. 3125

Answer: C

 Watch Video Solution

56. Total number of words formed by 2 vowels and 3 consonants taken from 4 vowels and 5 consonants, ie equal to :

A. 60

B. 120

C. 7200

D. 720

Answer: B

Watch Video Solution

57. The sum of the digits in unit place of all the numbers formed with the help of 3,4,5 and 6, taken all at a time, is :

A. 432

B. 108

C. 36

D. 18

Answer: C

Watch Video Solution

58. The number of possible outcomes when a coin is tossed 6 times is :

A. 36

B. 64

C. 24

D. 100

Answer: B

Watch Video Solution

59. If ${}^{m}C_{12} = {}^{n}C_{8}$ then n is equal to

A. 20

B. 12

C. 6

D. 30

Answer: A

Watch Video Solution

60. The straight lines , l_1, l_2 and l_3 are parallel and lie in the same plane . A total number of m points are taken on l : n points on l_2 k points on l_3 The maximum number of triangle formed with vertices at these points is :

A. $(m+n+k)C_3$

B. $(m+n+k)C_3 - mC_3 - nC_3 - kC_3$

C. $mC_3 + nC_3 + kC_3$

D. $mC_3 \times nC_3 \times kC_3$

Answer: B

Watch Video Solution

61. In an examination there are three multiple choice questions and each questions has 4 choices . Number of ways in which a students can fail to get all answers correct is :

A. 11

B. 12

C. 27

D. 63

Answer: D

 Watch Video Solution

62. number of triangles formed with vertices at these points are

A. $4C_3.4C_2$

B. $4C_2.4P_3$

C. $4P_2.4P_3$

D. none of these

Answer: D

View Text Solution

63. How many different nine - digit numbers can be formed from the number 223355888 by rearranging its digits so that the odd digit occupy even positions ?

A. 16

B. 36

C. 60

D. 180

Answer: C

Watch Video Solution

64. Let $A = \{1, 2, 3, 4\}$ and $B = \{1, 2\}$. Then the number of onto functions from A onto B is

A. 8

B. 12

C. 14

D. 16

Answer: C

 Watch Video Solution

65. Let T_n denote the number of triangles which can be formed using the vertices of a

regular polygon of n sides . If $T_{n+1} - T_n = 21$, then n equals :

A. 5

B. 7

C. 6

D. 4

Answer: B

Watch Video Solution

66. For $2 \leq r \leq n, \binom{n}{r} + 2\binom{n}{r-1}\binom{n}{r-2} =$

A. $n + 1C_{r-1}$

B. $n + 1C_{r+1}$

C. $n + 2C_r$

D. $2.\ n + 2C_r$

Answer: C

Watch Video Solution

67. The number of arrangements of the letters of the word ' BANANA ' in which the two N's do not appear adjacently is :

A. 40

B. 60

C. 80

D. 100

Answer: A

 Watch Video Solution

68. The sum $\sum_{i=0}^{m} \binom{10}{i}\binom{20}{m-i}$ (where $\binom{p}{q} = 0$, if $p < q$) is maximum, when m is:

A. 5

B. 10

C. 15

D. 20

Answer: C

Watch Video Solution

69. If $^{n-1}C_r = \left(k^2 - 3\right)^n C_{r+1}$, then $k \in$:

A. $(-\infty, -2)$

B. $[2, \infty)$

C. $[-\sqrt{3}, \sqrt{3}]$

D. $(\sqrt{3}, 2]$

Answer: D

Watch Video Solution

70. The letters of the word ' COCHIN ' are permuted and all permutations are arranged in an alphabetical order as in an english dictionary . The number of words that appear before the word ' COCHIN ' is :

A. 360

B. 192

C. 96

D. 48

Answer: C

Watch Video Solution

71. Consider all possible permutations of the letters of the word ENDEANOEL. The number of permutations containing the word ENDEA.

A. 1: 5 !

B. 2: 2 xx 5 !

C. 3: 7 xx 5 !

D. 4: 21 xx 5 !

Answer: A

Watch Video Solution

72. Consider all possible permutations of the letters of the word ENDEANOEL. The number of permutation in which the letter (E) occurs in the first and last positions is

A. 1: $5!$

B. 2: 2 xx 5 !

C. 3: 7 xx 5 !

D. 4: 21 xx 5 !

Answer: D

 Watch Video Solution

73. Consider all possible permutations of the letters of the word ENDEANOEL. The number of permutations in which none of the letters (D), (L) N occur in the last five positions is

A. 1: $5!$

B. 2: $2 \times 5!$

C. 3: $7 \times 5!$

D. 4: 21 x 5 !

Answer: B

 Watch Video Solution

74. Consider all possible permutations of the letters of the word ENDEANOEL. The number of permutations in which letters A, E, O occur only in odd positions is

A. 1: $5!$

B. 2: 2 x 5 !

C. 3: 7 x 5 !

D. 4: 21 x 5 !

Answer: B

Watch Video Solution

75. Total number of four digit odd numbers that can be formed by using 0,1,2,3,5,7 is

A. 216

B. 375

C. 400

D. 720

Answer: D

Watch Video Solution

76. The total number of numbers greater than 1000 , but not greater than 4000, that can be formed with the digits 0,1,2,3,4 when the repetition of digits allowed is

A. 1: 375

B. 2: 374

C. 3: 376

D. 4: none of these

Answer: A

 Watch Video Solution

77. A five digit number divisible by 3 is to be formed using the numbers 0,1,2,3,4 and 5

without repetitions . The total number of ways this can be done is :

A. 216

B. 240

C. 600

D. 3125

Answer: A

Watch Video Solution

78. A student is to answer 10 out of 13 questions in an examination such that he must choose at least 4 from the first five questions . The number of choices available to him is :

A. 140

B. 196

C. 280

D. 346

Answer: B

Watch Video Solution

79. The number of ways in which 6 mean and 5 women can dine at a round table if no two women are to sit together is given by :

A. $6!.5!$

B. 30

C. $5! - 4!$

D. $5! - 7!$

Answer: A

Watch Video Solution

80. The number of ways of distributing 8 identical balls in 3 distinct boxes so that none of the boxes is empty is :

A. $8C_3$

B. 21

C. 3^x

D. 5

Answer: B

Watch Video Solution

81. How many ways are there to arrange the letters in the word ' GARDEN ' with the vowels in alphabetical order ?

A. 480

B. 240

C. 360

D. 120

Answer: C

Watch Video Solution

82. If the letters of the word ' SACHIN ' are arranged in all possible ways and these words are written out as in dictionary, then the word ' SACHIN ' appears at serial number :

A. 602

B. 603

C. 600

D. 601

Answer: D

 Watch Video Solution

83. At an election , a voter may vote for any number of candidates , not greater than the number to be elected . There are 10 candidates and 4 are to be elected , If a voter votes for at least one candidates, then the number of ways in which he can vote is :

A. 5040

B. 6210

C. 385

D. 1110

Answer: C

Watch Video Solution

84. The set S={1,2,3,..., 12} is to be partioned into three sets A,B, C of equal size. Thus ,

$A \cup B \cup C = S, A \cap B = B \cap C = A \cap C = \phi$

. The number of ways to partition S is :

A. $\frac{12!}{(4!)^3}$

B. $\frac{12!}{(3!)^4}$

C. $\frac{12!}{3!(4!)^3}$

D. $\frac{12!}{3!(3!)^4}$

Answer: A

 Watch Video Solution

85. How many different words can be formed by jumbling the letters of word MISSISSIPPI in

which no two S are adjacent ?

A. $8 \times 6C_4 \times 7C_4$

B. $6 \times 7 \times 8C_4$

C. $6 \times 8 \times 7C_4$

D. $7 \times 6C_4 \times 8C_4$

Answer: D

Watch Video Solution

86. From 6 different novels and 3 different dictionaries , 4 novels 1 dictionary are to be selected and arranged in a row on a shelf so that the dictionary is always in middle. Then the number of such arrangement is :

A. less than 500

B. atleast 500 but less than 750

C. atleast 750 but less than 1000

D. atleast 1000

Answer: D

Watch Video Solution

87. There are two urns. UrnA has. 3 distinct red balls and urn B has 9 distinct blue balls. From each urn two balls are taken out at random and then transferred to the other . The number of way in which this can be done is :

A. 66

B. 108

C. 3

D. 36

Answer: B

Watch Video Solution

88. The number of straight lines can be formed through any two points out of 10 points of which 7 are collinear

A. 1: 26

B. 2: 21

C. 3: 25

D. 4: none of these

Answer: C

Watch Video Solution

89. The total number of arrangements of the letters in the expansion $a^3b^2c^4$ when written at full length is :

A. 1260

B. 2520

C. 610

D. none of these

Answer: A

 Watch Video Solution

90. A lady gives a dinner party to 5 guests to be selected from nine friends. The number of ways of forming the party of 5, given that two

of the friends will not attended the party together is

A. 1: 56

B. 2: 126

C. 3: 91

D. 4: none of these

Answer: C

Watch Video Solution

91. The number of ways of selecting 10 balls from unlimited number of red, black, white and green balls is

A. 1: 286

B. 2: 84

C. 3: 715

D. 4: none of these

Answer: A

 Watch Video Solution

92. Ten different letters of an alphabet are given . Words with five letters are formed from these given letters. Then the number of wards which have at least one letter repeated is :

A. 69760

B. 30240

C. 99748

D. none of these

Answer: A

Watch Video Solution

93. If $n \geq r$ then

$$rC_r + (r+1)C_r + (r+2)C_r + \ldots. + nC_r =$$

A. 1: $n+1C_r$

B. 2: $n+1C_{r+1}$

C. 3: $n+2C_{r+1}$

D. 4: $n+2C_{r+2}$

Answer: B

View Text Solution

94. A convex polygon has 44 diagonals. Find the number of sides.

A. 9

B. 10

C. 11

D. 12

Answer: C

Watch Video Solution

95. There are 'n' seats round a table numbered $1, 2, 3, \ldots, n$. The number of ways in which $m(\leq n)$ persons can take seat is

A. nP_n

B. nC'_m

C. $nC_n \times (m-1)!$

D. $n-1P_n$

Answer: A

Watch Video Solution

96. A rectangle with sides of lengths (2 n-1) and (2 m-1) units is divided into squares of unit lengths. The number of rectangles which can be formed with sides of odd length is

A. 1: m^2n^2

B. 2: $mn(m+1)(n+1)$

C. 3: $4^{a+a}-1$

D. 4: none of these

Answer: A

Watch Video Solution

97. A set contains (2 n+1) elements. The number of subsets of this set containing more than n elements is equal to

A. 1: 2^{n-1}

B. 2: 2^{n}

C. 3: 2^{n+1}

D. 4: 2^{2n}

Answer: D

Watch Video Solution

98. There are 10 true-false questions in an examination. The number of ways in which these questions can be answered is

A. 240

B. 20

C. 1024

D. 100

Answer: C

Watch Video Solution

99. The value of $1.1! + 2.2! + 3.3! + .. + n.n!$ is

A. $(n+1)!$

B. $(n+1)! + 1$

C. $(n+1)! - 1$

D. none of these

Answer: C

Watch Video Solution

100. Let A and B be two sets consisting of m and n elements respectively $(n \geq m)$. The number of one-one functions from A to B is

A. n^m

B. nC_n

C. $nC_{\mathrm{m}} \times m!$

D. $m^{,,}$

Answer: C

Watch Video Solution

101. m parallel lines in a plane are intersected by a family of n parallel lines. The total number of parallelograms so formed is :

A. $\frac{(m-1)(n-1)}{4}$

B. $\frac{mn}{4}$

C. $\frac{m(m-1)n(n-1)}{2}$

D. $\frac{nn(m-1)(n-1)}{4}$

Answer: D

Watch Video Solution

102. All possible two factors products are formed from the numbers $1, 2, 3, 4, \ldots . 200$. The number of factors out of the total obtained which are multiple of 5 is

A. 5040

B. 7180

C. 8150

D. none of these

Answer: B

Watch Video Solution

103. The value of the expression :

$^{47}C_4 + \sum_{j=1}^{5} {}^{52-j}C_3$ is equal to :

A. $52C_4$

B. $52C_3$

C. $51C_4$

D. $53C_4$

Answer: A

Watch Video Solution

104. $\sum_{r=0}^{m}(n+r)C_n =$

A. $n+m+1C_{n+1}$

B. $n+m+2C_w$

C. $n+m+3C_{n-1}$

D. none of these

Answer: A

Watch Video Solution