

(FOR THE CANDIDATES ADMITTED IN  
DURING THE ACADEMIC YEARS 2024  
ONLY)

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24UMS3N1

Reg no

**N.G.M.COLLEGE (AUTONOMOUS): POLLACHI**  
**END-OF-SEMESTER EXAMINATIONS: NOVEMBER-2025**  
**UG DEGREE COURSES** **MAXIMUM MARKS: 50**  
**SEMESTER III** **TIME: 2 HOURS**

**PART - IV**  
**QUANTITATIVE APTITUDE**

**SECTION - A**

**(10 X 1 = 10 MARKS)**

**ANSWER THE FOLLOWING QUESTIONS. (K1)**  
**MULTIPLE CHOICE QUESTIONS.**

1. 60% of 264 is the same as \_\_\_\_\_.  
a) 10% of 44    b) 15% of 1056    c) 30% of 132    d) None of these
2. In a:b, a is called \_\_\_\_\_.  
a) antecedent    b) consequent    c) componendo    d) None of these
3. I gain 70 paise on Rs 70. My gain percent is.....  
a) 0.1%    b) 1%    c) 7%    d) 10%
4. The value of  ${}^{75}P_2$  is \_\_\_\_\_.  
a) 2775    b) 150    c) 5550    d) none of these
5. Any subset of a sample space is called an \_\_\_\_\_.  
a) event    b) probability    c) experiment    d) none of these.

**ANSWER THE FOLLOWING QUESTIONS IN ONE OR TWO SENTENCES. (K2)**

6. Define BODMAS Rule.
7. Define Proportion.
8. Define Permutation and Combination.
9. Define Cost Price and Selling Price.
10. Define Sample space with examples.

**(CONTD.....2)**

**SECTION – B****(5X8 = 40 MARKS)****ANSWER ANY FIVE QUESTIONS OUT OF THE EIGHT QUESTIONS. [K4 (Or) K5]**

11. a) Evaluate: 28% of 450 + 45% of 280.

**(OR)**

b). If  $x/y = 6/5$ , find the value of  $x^2+y^2/x^2-y^2$ .

12. a) Divide Rs. 1162 among A, B, C in the ratio 35:28:20.

**(OR)**

b) A bag contains 50 p, 25 p and 10 p coins in the ratio 5:9:4, amounting to Rs. 206.  
Find the number of coins of each type.

13. a) The population of a town is Rs. 1,76,400. If it increases at the rate of 5% per annum,  
What will be its population 2 years hence? What was it 2 years ago.

**(OR)**

b) How many words can be formed from the letters of the word 'DIRECTOR', so that the vowels are always together.

14. a) Two dice are thrown together. What is the probability that the sum of the numbers on the two faces is divisible by 4 or 6.

**(OR)**

b) A bag contains 6 white and 4 black balls. Two balls are drawn at random find the probability that they are of the same color.

15. a) A man buys an article for Rs. 27.50 and sells it for Rs. 26.60. Find his gain percent

**(OR)**

b) A book was sold for Rs. 27.50 with a profit of 10%. If it were sold for Rs. 25.75, then what would have been the percentage of profit or loss.

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