



Class 11 Mathematics | Binomial Theorem

MCQ WORKSHEET • 15 questions • Choose one correct option • Suggested time: 25 minutes

1. The coefficient of x^2 in $(1+x)^5$ is:

A. 5 B. 15 C. 20 D. 10

2. The number of terms in $(a+b)^8$ is:

A. 16 B. 9 C. 8 D. 7

3. The coefficient of x^3 in $(2+x)^4$ is:

A. 4 B. 16 C. 32 D. 8

4. The constant term in $(x+1/x)^4$ is:

A. 4 B. 6 C. 8 D. 1

5. The coefficient of x^3 in $(1+x)^6$ is:

A. 20 B. 15 C. 6 D. 30

6. The sum of coefficients in $(2x+1)^4$ is:

A. 64 B. 81 C. 27 D. 16

7. The coefficient of x^2 in $(1-x)^5$ is:

A. 10 B. 5 C. -10 D. -5

8. The third term of $(a+b)^5$ is:

A. $10a^2b^3$ B. $5ab^4$ C. $10a^3b^2$ D. $5a^4b$

9. The coefficient of x^4 in $(1+2x)^5$ is:

A. 40 B. 80 C. 160 D. 16

10. The constant term in $(2+x)^3$ is:

A. 2 B. 1 C. 8 D. 6

11. The coefficient of x in $(3-x)^3$ is:

A. 27 B. 9 C. -27 D. -9

12. In $(1+x)^7$, coefficients of x^2 and x^5 are:

A. Opposite B. In ratio 2:5
C. In ratio 5:2 D. Equal

13. The coefficient of x^6 in $(x^2+1)^5$ is:

A. 20 B. 5 C. 10 D. 15

14. The last term of $(2x-3)^4$ is:

A. -81 B. 81 C. $16x^4$ D. -27

15. The sum of coefficients of odd powers in $(1+x)^6$ is:

A. 64 B. 32 C. 31 D. 16

ANSWER KEY — check after completing all 15 questions

1.D 2.B 3.D 4.B 5.A 6.B 7.A 8.C 9.B 10.C 11.C 12.D 13.C 14.B 15.B

Original exam-style practice • Reference notes: www.physics.guru/cbse-practice-papers/ • Not an official paper

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