

## **MATHEMATICS TRIAL QUESTIONS (ENTRANCE EXAMS)**

1. Find the coefficient of  $y^3$  in the binomial expansion  $(x-2y)^4$ .
2. For what values of  $x$  will the function  $f(x)=x^3+6x^2+5$  have turning points.
3. The mean of 12 numbers is 18. If each of the numbers is increased by 4, what is the new mean?
4. Find the equation of the line which passes through the point (1, 3) and which is perpendicular to the line  $2y - 3x + 1 = 0$ .
5. The second and fourth terms of a linear sequence are 9 and 17 respectively. Find the common difference.
6.  $V$  and  $P$  are related by  $V = aP^n$  where  $a$  and  $n$  are constants. Find the gradient of the straight line obtained from it.
7. The probability that Joshua and Janice solve a problem correctly are  $2/3$  and  $1/5$  respectively. If they both attempt the problem, find the probability that only one of them solves it correctly.
8. Find the angle between  $i + 5j$  and  $5i - j$ .
9. Find the velocity after 2 seconds of a body of mass : 2kg which moves from rest in a straight line under the action of a force  $F = (4 - \frac{1}{2}t)$  N.
10. A box contains four tickets numbered 1, 2, 3 and 4. Two tickets are drawn one after the other, without replacement and their numbers added. Find the probability that the sum is prime.
11. The distance  $s$  metres travelled by a particle in a straight line is  $s = 12t + 110t$ . What is the velocity after 1 second?
12.  $P$  contains 4 elements,  $Q$  contains 3 elements, and 2 elements are common to both  $P$  and  $Q$ . State the number of elements in  $P \cup Q$ .
13. Change  $145^\circ$  to radians.
14. In how many ways can a committee comprising a girl and two boys be selected from a group of three girls and five boys?
15. Find  $a, b$ , if  $a = 4i + 7j$  and  $b = 3i - 5j$

# 2014 Mathematics Trial Exams

**J Dewey**

**2014 Mathematics Trial Exams:**

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