2. The roots of the quadratic equation $x^2 + 3x - 10 = 0$ are :

(A)   5, 2
(B)   − 5, 2
(C)   5, − 2
(D)   − 5, − 2

3. The pair of linear equations $2kx + 5y = 7$, $6x + 5y = 11$ have a unique solution, if

(A) $k \neq 3$
(B) $k \neq -3$
(C) $k \neq \dfrac{1}{3}$
(D) $k \neq -\dfrac{1}{3}$

4. If the mean and mode of a frequency distribution are 28 and 16 respectively, then its median is :

(A)   22
(B)   23·5
(C)   24
(D)   24·5

5. A die is rolled once. What is the probability of getting an odd prime number ?

(A) $\dfrac{1}{6}$
(B) $\dfrac{1}{3}$
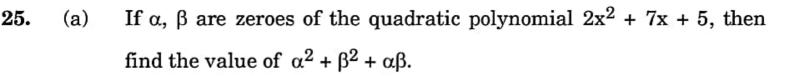(C) $\dfrac{2}{3}$
(D) $\dfrac{3}{4}$

6. If the area of a sector of a circle is $\dfrac{1}{8}$ of the area of the circle, then the central angle of the sector is :

(A)   30°
(B)   45°
(C)   60°
(D)   90°

25. **(a)** If α, β are zeroes of the quadratic polynomial $2x^2 + 7x + 5$, then find the value of $\alpha^2 + \beta^2 + \alpha\beta$.

OR

(b) If one zero of the quadratic polynomial $6x^2 + 37x - (p - 2)$ is reciprocal of the other, then find the value of p.