

MATHEMATICS

SECTION - A

Multiple Choice Questions: This section contains 20 multiple choice questions. Each question has 4 choices (1), (2), (3) and (4), out of which **ONLY ONE** is correct.

Choose the correct answer:

1. The absolute difference of the coefficient of x^7 and x^9 in the expansion of $\left(2x + \frac{1}{2x}\right)^{11}$ is

- (1) 11×2^5 (2) 11×2^7
(3) 11×2^4 (4) 11×2^9

Answer (2)

Sol. $T_{r+1} = {}^{11}C_r (2x)^{11-r} \left(\frac{1}{2x}\right)^r$

$$= {}^{11}C_r \frac{2^{11-r}}{2^r} x^{11-2r}$$

$$11 - 2r = 7 \text{ and } 11 - 2r = 9$$

$$r = 2 \quad r = 1$$

$$\therefore \text{Coefficient of } x^7 \text{ is } {}^{11}C_2 \frac{(2)^9}{2^2} = {}^{11}C_2 (2)^7$$

$$\text{Coefficient of } x^9 \text{ is } {}^{11}C_1 \frac{(2)^{10}}{2} = {}^{11}C_1 (2)^9$$

$${}^{11}C_2 (2)^7 - 11 \times (2)^9$$

$$= 11 \times 2^7$$

2. Let $f(x) = \{1, 2, 3, 4, 5, 6, 7\}$ the relation $R = \{(x, y) \in A \times A, x + y = 7\}$ is

- (1) Symmetric
(2) Reflexive
(3) Transitive
(4) Equivalence

Answer (1)

Sol. $x + y = 7$

$$y = 7 - x$$

$$R = \{(1, 6), (2, 5), (3, 4), (4, 3), (5, 2), (6, 1)\}$$

$$\therefore (a, b) \in R \Rightarrow (b, a) \in R$$

\therefore Relation is symmetric

3. The number of words with or without meaning can be formed from the word MATHEMATICS where C, S not come together is

- (1) $\frac{9}{8} \times 10!$ (2) $\frac{1}{8} \times 10!$
(3) $\frac{5}{8} \times 10!$ (4) $\frac{1}{2} \times 10!$

Answer (1)

Sol. Total words = $\frac{11!}{2!2!2!}$

$$\text{When C and S are together} = \frac{10!}{2!2!2!} \times 2!$$

$$\therefore \text{Required number of words} = \frac{11!}{(2!)^3} - \frac{10!}{(2!)^3} \times 2!$$

$$= \frac{10!}{8} [11 - 2]$$

$$= \frac{9}{8} \times 10!$$

4. Let $a_n = 5 + 8 + 14 + 23 + \dots$ upto n terms. If

$$S_n = \sum_{k=1}^n a_k, \text{ then } S_{30} - a_{30} \text{ is equal to}$$

- (1) 78025
(2) 12800
(3) 11600
(4) 12100

Answer (1)

Sol. $a_n = 5 + 8 + 14 + \dots T_n$

$$\frac{a_n + 5 + 8 + 14 + \dots + T_{n-1} + T_n}{0 = 5 + 3 + 6 + 9 + \dots - T_n}$$

$$\Rightarrow T_n = 5 + \left(\frac{n-1}{2}\right)(6 + (n-2)3) = 5 + \frac{3}{2}(n-1)^2$$

$$5 + \frac{3}{2}n^2 - \frac{3}{2}n$$

$$\Rightarrow \frac{1}{2}(10 + 3n^2 - 3n)$$

$$\therefore T_n = \frac{1}{2}(3n^2 - 3n + 10)$$

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Guillaume Favre

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