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ASSERTION & REASON FOR SEQUENCE AND SERIES

Some questions (Assertion–Reason type) are given below. Each question contains **Statement – 1 (Assertion)** and **Statement – 2 (Reason)**. Each question has 4 choices (A), (B), (C) and (D) out of which **ONLY ONE** is correct. So select the correct choice:

- (A) **Statement – 1** is True, **Statement – 2** is True; **Statement – 2** is a correct explanation for **Statement – 1**.
 (B) **Statement – 1** is True, **Statement – 2** is True; **Statement – 2** is NOT a correct explanation for **Statement – 1**.
 (C) **Statement – 1** is True, **Statement – 2** is False.
 (D) **Statement – 1** is False, **Statement – 2** is True.
549. **Statement–1** : In the expression $(x + 1)(x + 2) \dots (x + 50)$, coefficient of x^{49} is equal to 1275.
Statement–2 : $\sum_{r=1}^n r = \frac{n(n+1)}{2}$, $n \in \mathbb{N}$.
550. Let a, b, c, d are four positive number
Statement–1 : $\left(\frac{a}{b} + \frac{b}{c}\right)\left(\frac{c}{d} + \frac{d}{e}\right) \geq 4\sqrt{\frac{a}{e}}$ **Statement–2** : $\frac{b}{a} + \frac{c}{b} + \frac{d}{c} + \frac{e}{d} + \frac{a}{e} \geq 5$.
551. Let a, b, c and d be distinct positive real numbers in H.P.
Statement–1 : $a + d > b + c$ **Statement–2** : $\frac{1}{a} + \frac{1}{d} = \frac{1}{b} + \frac{1}{c}$
552. Let $a, r \in \mathbb{R} - \{0, 1, -1\}$ and n be an even number.
Statement–1 : a. ar. $ar^2 \dots ar^{n-1} = (a^2 r^{n-1})^{n/2}$.
Statement–2 : Product of k^{th} term from the beginning and from the end in a G.P. is independent of k .
553. **Statement–1** : Let $p, q, r \in \mathbb{R}^+$ and $27pqr \geq (p + q + r)^3$ and $3p + 4q + 5r = 12$, then $p^3 + q^4 + r^5$ is equal to 4.
Statement–2 : If A, G, and H are A.M., G.M., and H.M. of positive numbers $a_1, a_2, a_3, \dots, a_n$ then $H \leq G \leq A$.
554. **Statement–1** : The sum of series $n.n + (n - 1)(n + 1) + (n - 2)(n + 2) + \dots + 1.(2n - 1)$ is $\frac{1}{6}n(n+1)(4n+1)$.
Statement–2 : The sum of any series S_n can be given as, $S_n = \sum_{r=1}^n T_r$, where T_r is the general term of the series.
555. **Statement–1** : P is a point (a, b, c) . Let A, B, C be images of P in yz, zx and xy plane respectively, then equation of plane must be $\frac{x}{a} + \frac{y}{b} + \frac{z}{c} = 1$.
Statement–2 : The direction ratio of the line joining origin and point (x, y, z) must be x, y, z .
556. **Statement–1** : If A, B, C, D be the vertices of a rectangle in order. The position vector of A, B, C, D be $\vec{a}, \vec{b}, \vec{c}, \vec{d}$ respectively, then $\vec{a} \cdot \vec{c} = \vec{b} \cdot \vec{d}$.
Statement–2 : In a triangle ABC, let O, G and H be the circumcentre, centroid and orthocentre of the triangle ABC, then $\vec{OA} + \vec{OB} + \vec{OC} = \vec{OH}$.
557. **Statement-1**: $1 + 3 + 7 + 13 + \dots$ upto n terms $= \frac{n(n+2)}{3}$ **Statement-2**: $\frac{a^{n+1} + b^{n+1}}{a^n + b^n}$ is HM of a & b if $n = -\frac{1}{2}$
558. **Statement-1**: $1111 \dots 1$ (up to 91 terms) is a prime number
Statement-2: If $\frac{b+c-a}{a}, \frac{c+a-b}{b}, \frac{a+b-c}{c}$ are in A.P., then $\frac{1}{a}, \frac{1}{b}, \frac{1}{c}$ are also in A.P.

- 559. Statement-1:** For a infinite G.P. whose first term is 'a' and common ratio is r, then $S_{\infty} = \frac{a}{1-r}$ where $|r| \geq 1$
Statement-2: A, G, H are arithmetic mean, Geometric mean and harmonic mean of two positive real numbers a & b. Then A, G, H are in G.P.
- 560. Statement-1:** 11 11 1 (up to 91 terms) is a prime number.
Statement-2: If $\frac{b+c-a}{a}, \frac{c+a-b}{b}, \frac{a+b-c}{c}$ Are in A.P., then $\frac{1}{a}, \frac{1}{b}, \frac{1}{c}$ are also in A.P.
- 561. Statement-1:** The sum of all the products of the first n positive integers taken two at a time is $\frac{1}{24} (n-1)(n+1)$
Statement-2: $\sum_{i \leq j \leq n} a_i a_j = (a_1 + a_2 + \dots + a_n)^2 - (a_1^2 + a_2^2 + a_n^2)$
- 562. Statement-1:** Let the positive numbers a, b, c, d, e be in AP, then abcd, abce, abde, acde, bcde are in HP
Statement-2: If each term of an A.P. is divided by the same number k, the resulting sequence is also
- 563. Statement-1:** If a, b, c are in G.P., $\frac{1}{\log a}, \frac{1}{\log b}, \frac{1}{\log c}$ are in H.P.
Statement-2: When we take logarithm of the terms in G.P., they occur in A.P.
- 564. Statement-1:** If $3p + 4q + 5r = 12$ then $p^3 q^4 r^5 \geq 1$ here p, q, r $\in \mathbb{R}^+$
S-2: If the quantities are positive then weighted arithmetic mean is greater than or equal to geometric mean.
- 565. Statement-1:** $S = 1/4 - 1/2 + 1 - 2 + 2^2 - \dots = \frac{1/4}{1+2} = \frac{1}{12}$
S-2: Sum of n terms of a G.P. with first term as 'a' and common ratio as r in given by $a \left(\frac{r^n - 1}{r - 1} \right), |r| > 1$.
- 566. Statement-1:** $-4 + 2 - 1 + 1/2 - 1/4 + \dots \infty$ is a geometric sequence.
Statement-2: Terms of a sequence are positive numebrs.
- 567. Statement-1:** The sum of the infinite A.P. $1 + 2 + 2^2 + 2^3 + \dots + \dots$ is given by $\frac{a}{1-r} = \frac{1}{1-2} = -1$
Statement-2: The sum of an infinite G.P. is given by $\frac{a}{1-r}$ where $|r| < 1$ a is first term and r is common ratio.
- 568. Statement-1:** If $a_1, a_2, a_3, \dots, a_n$ are positive real numbers whose product is a fixed number C, then the minimum value of $a_1 + a_2 + \dots + a_{n-1} + 2a_n$ is $n(2c)^{1/n}$.
Statement-2: If $a_1, a_2, a_3, \dots, a_n \in \mathbb{R}^+$. then $\frac{a_1 + a_2 + a_3 + \dots + a_n}{n} \geq (a_1 a_2 a_3 \dots a_n)^{1/n}$
- 569. Statement-1:** If $a(b-c)x^2 + b(c-a)x + c(a-b) = 0$ has equal roots, then a, b, c are in H.P.
Statement-2: Sum of the roots and product of the root are equal
- 570. Statement-1:** $\lim_{n \rightarrow \infty} \frac{x^n}{n!} = 0$ for every $n > 0$
Statement-2: Every sequence whose nth term contains n! in the denominator converges to zero.
- 571. Statement-1:** Sum of an infinite geometric series with common ratio more than one is not possible to find out.
S-2: The geometric series (Infinite) with common ratio more than one becomes diverging and sum is not fixed.
- 572. Statement-1:** If arithmetic mean of two numbers is 5/2, Geometric mean of the numbers is 2 then harmonic mean will be 8/5.
Statement-2: for a group of numbers $(GM)^2 = (AM) \times (HM)$.
- 573. Statement-1:** If a, b, c, d be four distinct positive quantities in H.P. then $a + d > b + c$, $ad > bc$.
Statement-2: A.M. > G.M. > H.M.
- 574. Statement-1:** The sum of n arithmetic means between two given numbers is n times the single arithmetic mean between them.
Statement-2: n^{th} term of the A.P. with first term a and common difference d is $a + (n-1)d$.
- 575. Statement-1:** If $a + b + c = 3$ $a > 0, b > 0, c > 0$, then greatest value of $a^2 b^3 c^4 = 3^{10} 2^4 - 77$.
Statement-2: If $a_i > 0$ $i = 1, 2, 3, \dots, n$, then $\frac{a_1 + a_2 + a_3 + \dots + a_n}{n} \geq (a_1 a_2 \dots a_n)^{1/n}$

ANSWER SHEET

549. A 550. B 551. B 552. B 553. D 554. D 555. B 556. B 557. C 558. D 559. D 560. D 561. A
562. A 563. A 564. D 565. D 566. D 567. D 568. A 569. C 570. C 571. A 572. C 573. A 574. C 575. A

IMP QUESTION FROM COMPETITIVE EXAMS

- If the angles of a quadrilateral are in A.P. whose common difference is 10° , then the angles of the quadrilateral are
(a) $65^\circ, 85^\circ, 95^\circ, 105^\circ$ (b) $75^\circ, 85^\circ, 95^\circ, 105^\circ$ (c) $65^\circ, 75^\circ, 85^\circ, 95^\circ$ (d) $65^\circ, 95^\circ, 105^\circ, 115^\circ$
- If the sum of first n terms of an A.P. be equal to the sum of its first m terms, ($m \neq n$), then the sum of its first $(m+n)$ terms will be
[MP PET 1984]
(a) 0 (b) n (c) m (d) $m+n$
- If p, q, r are in A.P. and are positive, the roots of the quadratic equation $px^2 + qx + r = 0$ are all real for [IIT 1995]
(a) $\left| \frac{r}{p} - 7 \right| \geq 4\sqrt{3}$ (b) $\left| \frac{p}{r} - 7 \right| < 4\sqrt{3}$ (c) All p and r (d) No p and r
- The sums of n terms of three A.P.'s whose first term is 1 and common differences are 1, 2, 3 are S_1, S_2, S_3 respectively. The true relation is
(a) $S_1 + S_3 = S_2$ (b) $S_1 + S_3 = 2S_2$ (c) $S_1 + S_2 = 2S_3$ (d) $S_1 + S_2 = S_3$
- The value of x satisfying
 $\log_a x + \log_{\sqrt{a}} x + \log_{3\sqrt{a}} x + \dots \dots \log_{a\sqrt{a}} x = \frac{a+1}{2}$ will be
(a) $x = a$ (b) $x = a^a$ (c) $x = a^{-1/a}$ (d) $x = a^{1/a}$
- Jairam purchased a house in Rs. 15000 and paid Rs. 5000 at once. Rest money he promised to pay in annual installment of Rs. 1000 with 10% per annum interest. How much money is to be paid by Jairam [UPSEAT 1999]
(a) Rs. 21555 (b) Rs. 20475 (c) Rs. 20500 (d) Rs. 20700
- Let S_1, S_2, \dots be squares such that for each $n \geq 1$, the length of a side of S_n equals the length of a diagonal of S_{n+1} . If the length of a side of S_1 is 10cm , then for which of the following values of n is the area of S_n less than 1sq cm
(a) 7 (b) 8 (c) 9 (d) 10
- If $S_1, S_2, S_3, \dots, S_m$ are the sums of n terms of m A.P.'s whose first terms are 1, 2, 3, ..., m and common differences are 1, 3, 5, ..., $2m-1$ respectively, then $S_1 + S_2 + S_3 + \dots + S_m =$
(a) $\frac{1}{2}mn(mn+1)$ (b) $mn(m+1)$ (c) $\frac{1}{4}mn(mn-1)$ (d) None of the above
- If $a_1, a_2, a_3, \dots, a_{24}$ are in arithmetic progression and $a_1 + a_5 + a_{10} + a_{15} + a_{20} + a_{24} = 225$, then $a_1 + a_2 + a_3 + \dots + a_{23} + a_{24} =$
[MP PET 1999; AMU 1997]
(a) 909 (b) 75 (c) 750 (d) 900
- If the roots of the equation $x^3 - 12x^2 + 39x - 28 = 0$ are in A.P., then their common difference will be
(a) ± 1 (b) ± 2 (c) ± 3 (d) ± 4 [UPSEAT 1994, 99, 2001; RPET 2001]
- If the first term of a G.P. a_1, a_2, a_3, \dots is unity such that $4a_2 + 5a_3$ is least, then the common ratio of G.P. is
(a) $-\frac{2}{5}$ (b) $-\frac{3}{5}$ (c) $\frac{2}{5}$ (d) None of these
- If the sum of the n terms of G.P. is S product is P and sum of their inverse is R , then P^2 is equal to
(a) $\frac{R}{S}$ (b) $\frac{S}{R}$ (c) $\left(\frac{R}{S}\right)^n$ (d) $\left(\frac{S}{R}\right)^n$ [IIT 1966; Roorkee 1981]
- Let $n(>1)$ be a positive integer, then the largest integer m such that $(n^m + 1)$ divides $(1 + n + n^2 + \dots + n^{127})$, is
(a) 32 (b) 63 (c) 64 (d) 127 [IIT 1995]

14. A G.P. consists of an even number of terms. If the sum of all the terms is 5 times the sum of the terms occupying odd places, then the common ratio will be equal to
 (a) 2 (b) 3 (c) 4 (d) 5
15. If $f(x)$ is a function satisfying $f(x+y) = f(x)f(y)$ for all $x, y \in N$ such that $f(1) = 3$ and $\sum_{x=1}^n f(x) = 120$. Then the value of n is
 [IIT 1992]
 (a) 4 (b) 5 (c) 6 (d) None of these
16. If n geometric means between a and b be G_1, G_2, \dots, G_n and a geometric mean be G , then the true relation is
 (a) $G_1 \cdot G_2 \cdot \dots \cdot G_n = G$ (b) $G_1 \cdot G_2 \cdot \dots \cdot G_n = G^{1/n}$
 (c) $G_1 \cdot G_2 \cdot \dots \cdot G_n = G^n$ (d) $G_1 \cdot G_2 \cdot \dots \cdot G_n = G^{2/n}$
17. α, β are the roots of the equation $x^2 - 3x + a = 0$ and γ, δ are the roots of the equation $x^2 - 12x + b = 0$. If $\alpha, \beta, \gamma, \delta$ form an increasing G.P., then $(a, b) =$ [DCE 2000]
 (a) (3, 12) (b) (12, 3) (c) (2, 32) (d) (4, 16)
18. $2.\overline{357} =$ [IIT 1983; RPET 1995]
 (a) $\frac{2355}{1001}$ (b) $\frac{2370}{997}$ (c) $\frac{2355}{999}$ (d) None of these
19. If $1 + \cos \alpha + \cos^2 \alpha + \dots \infty = 2 - \sqrt{2}$, then α , $(0 < \alpha < \pi)$ is [Roorkee 2000; AMU 2005]
 (a) $\pi/8$ (b) $\pi/6$ (c) $\pi/4$ (d) $3\pi/4$
20. The first term of an infinite geometric progression is x and its sum is 5. Then [IIT Screening 2004]
 (a) $0 \leq x \leq 10$ (b) $0 < x < 10$ (c) $-10 < x < 0$ (d) $x > 10$
21. If a, b, c are in H.P., then the value of $\left(\frac{1}{b} + \frac{1}{c} - \frac{1}{a}\right)\left(\frac{1}{c} + \frac{1}{a} - \frac{1}{b}\right)$, is [MP PET 1998; Pb. CET 2000]
 (a) $\frac{2}{bc} + \frac{1}{b^2}$ (b) $\frac{3}{c^2} + \frac{2}{ca}$ (c) $\frac{3}{b^2} - \frac{2}{ab}$ (d) None of these
22. If m is a root of the given equation $(1-ab)x^2 - (a^2 + b^2)x - (1+ab) = 0$ and m harmonic means are inserted between a and b , then the difference between the last and the first of the means equals
 (a) $b-a$ (b) $ab(b-a)$ (c) $a(b-a)$ (d) $ab(a-b)$
23. A boy goes to school from his home at a speed of x km/hour and comes back at a speed of y km/hour, then the average speed is given by [DCE 2002]
 (a) A.M. (b) G.M. (c) H.M. (d) None of these
24. If a, b, c, d be in H.P., then
 (a) $a^2 + c^2 > b^2 + d^2$ (b) $a^2 + d^2 > b^2 + c^2$ (c) $ac + bd > b^2 + c^2$ (d) $ac + bd > b^2 + d^2$
25. If a, b, c are the positive integers, then $(a+b)(b+c)(c+a)$ is [DCE 2000]
 (a) $< 8abc$ (b) $> 8abc$ (c) $= 8abc$ (d) None of these
26. In a G.P. the sum of three numbers is 14, if 1 is added to first two numbers and subtracted from third number, the series becomes A.P., then the greatest number is [Roorkee 1973]
 (a) 8 (b) 4 (c) 24 (d) 16
27. If a, b, c are in G.P. and $\log a - \log 2b, \log 2b - \log 3c$ and $\log 3c - \log a$ are in A.P., then a, b, c are the length of the sides of a triangle which is
 (a) Acute angled (b) Obtuse angled (c) Right angled (d) Equilateral
28. If $A_1, A_2; G_1, G_2$ and H_1, H_2 be A.M.'s, G.M.'s and H.M.'s between two quantities, then the value of $\frac{G_1 G_2}{H_1 H_2}$ is

(a) $\frac{A_1 + A_2}{H_1 + H_2}$ (b) $\frac{A_1 - A_2}{H_1 + H_2}$ (c) $\frac{A_1 + A_2}{H_1 - H_2}$ (d) $\frac{A_1 - A_2}{H_1 - H_2}$

29. The harmonic mean of two numbers is 4 and the arithmetic and geometric means satisfy the relation $2A + G^2 = 27$, the numbers are
[MNR 1987; UPSEAT 1999, 2000]
 (a) 6, 3 (b) 5, 4 (c) 5, -2.5 (d) -3, 1
30. If the A.M. of two numbers is greater than G.M. of the numbers by 2 and the ratio of the numbers is 4 : 1, then the numbers are
[RPET 1988]
 (a) 4, 1 (b) 12, 3 (c) 16, 4 (d) None of these
31. If the A.M. and G.M. of roots of a quadratic equations are 8 and 5 respectively, then the quadratic equation will be
[Pb. CET 1990]
 (a) $x^2 - 16x - 25 = 0$ (b) $x^2 - 8x + 5 = 0$ (c) $x^2 - 16x + 25 = 0$ (d) $x^2 + 16x - 25 = 0$
32. The A.M., H.M. and G.M. between two numbers are $\frac{144}{15}$, 15 and 12, but not necessarily in this order. Then H.M., G.M. and A.M. respectively are
 (a) 15, 12, $\frac{144}{15}$ (b) $\frac{144}{15}$, 12, 15 (c) 12, 15, $\frac{144}{15}$ (d) $\frac{144}{15}$, 15, 12
33. If a be the arithmetic mean of b and c and G_1, G_2 be the two geometric means between them, then $G_1^3 + G_2^3 =$
 (a) $G_1 G_2 a$ (b) $2G_1 G_2 a$ (c) $3G_1 G_2 a$ (d) None of these
34. Three numbers form a G.P. If the 3rd term is decreased by 64, then the three numbers thus obtained will constitute an A.P. If the second term of this A.P. is decreased by 8, a G.P. will be formed again, then the numbers will be
 (a) 4, 20, 36 (b) 4, 12, 36 (c) 4, 20, 100 (d) None of the above
35. If $x > 1, y > 1, z > 1$ are in G.P., then $\frac{1}{1 + \ln x}, \frac{1}{1 + \ln y}, \frac{1}{1 + \ln z}$ are in **[IIT 1998; UPSEAT 2001]**
 (a) A.P. (b) H.P. (c) G.P. (d) None of these
36. a, g, h are arithmetic mean, geometric mean and harmonic mean between two positive numbers x and y respectively. Then identify the correct statement among the following **[Karnataka CET 2001]**
 (a) h is the harmonic mean between a and g (b) No such relation exists between a, g and h
 (c) g is the geometric mean between a and h (d) A is the arithmetic mean between g and h
37. $2^{\sin \theta} + 2^{\cos \theta}$ is greater than **[AMU 2000]**
 (a) $\frac{1}{2}$ (b) $\sqrt{2}$ (c) $2^{\frac{1}{\sqrt{2}}}$ (d) $2^{\left(1 - \frac{1}{\sqrt{2}}\right)}$
38. If a, b, c, d are positive real numbers such that $a + b + c + d = 2$, then $M = (a + b)(c + d)$ satisfies the relation **[IIT Screening 2000]**
 (a) $0 < M \leq 1$ (b) $1 \leq M \leq 2$
 (c) $2 \leq M \leq 3$ (d) $3 \leq M \leq 4$
39. Suppose a, b, c are in A.P. and a^2, b^2, c^2 are in G.P. If $a < b < c$ and $a + b + c = \frac{3}{2}$, then the value of a is **[IIT Screening 2002]**

(a) $\frac{1}{2\sqrt{2}}$ (b) $\frac{1}{2\sqrt{3}}$ (c) $\frac{1}{2} - \frac{1}{\sqrt{3}}$ (d) $\frac{1}{2} - \frac{1}{\sqrt{2}}$

40. n^{th} term of the series $1 + \frac{4}{5} + \frac{7}{5^2} + \frac{10}{5^3} + \dots$ will be

(a) $\frac{3n+1}{5^{n-1}}$ (b) $\frac{3n-1}{5^n}$ (c) $\frac{3n-2}{5^{n-1}}$ (d) $\frac{3n+2}{5^{n-1}}$

41. The sum of the series $\frac{1}{1+1^2+1^4} + \frac{2}{1+2^2+2^4} + \frac{3}{1+3^2+3^4} + \dots$ to n terms is

(a) $\frac{n(n^2+1)}{n^2+n+1}$ (b) $\frac{n(n+1)}{2(n^2+n+1)}$ (c) $\frac{n(n^2-1)}{2(n^2+n+1)}$ (d) None of these

42. For any odd integer $n \geq 1$,

$n^3 - (n-1)^3 + \dots + (-1)^{n-1} 1^3 =$ [IIT 1996]

(a) $\frac{1}{2}(n-1)^2(2n-1)$ (b) $\frac{1}{4}(n-1)^2(2n-1)$ (c) $\frac{1}{2}(n+1)^2(2n-1)$ (d) $\frac{1}{4}(n+1)^2(2n-1)$

43. The sum of n terms of the series $\frac{1}{1+\sqrt{3}} + \frac{1}{\sqrt{3}+\sqrt{5}} + \frac{1}{\sqrt{5}+\sqrt{7}} + \dots$ is [UPSEAT 2002]

(a) $\sqrt{2n+1}$ (b) $\frac{1}{2}\sqrt{2n+1}$ (c) $\sqrt{2n+1} - 1$ (d) $\frac{1}{2}(\sqrt{2n+1} - 1)$

44. n^{th} term of the series $\frac{1^3}{1} + \frac{1^3+2^3}{1+3} + \frac{1^3+2^3+3^3}{1+3+5} + \dots$ will be [Pb. CET 2000]

(a) $n^2 + 2n + 1$ (b) $\frac{n^2 + 2n + 1}{8}$ (c) $\frac{n^2 + 2n + 1}{4}$ (d) $\frac{n^2 - 2n + 1}{4}$

45. The sum of the series $\frac{1}{\sqrt{1}+\sqrt{2}} + \frac{1}{\sqrt{2}+\sqrt{3}} + \frac{1}{\sqrt{3}+\sqrt{4}} + \dots + \frac{1}{\sqrt{n^2-1}+\sqrt{n^2}}$

equals [AMU 2002]

(a) $\frac{(2n+1)}{\sqrt{n}}$ (b) $\frac{\sqrt{n}+1}{\sqrt{n}+\sqrt{n-1}}$ (c) $\frac{(n+\sqrt{n^2-1})}{2\sqrt{n}}$ (d) $n-1$

ANSWER

1	b	2	a	3	a	4	b	5	d
6	c	7	b,c,d	8	a	9	d	10	c
11	a	12	d	13	c	14	c	15	a
16	c	17	c	18	c	19	d	20	b
21	c	22	b	23	c	24	c	25	b
26	a	27	b	28	a	29	a	30	c
31	c	32	b	33	b	34	c	35	b
36	c	37	d	38	a	39	d	40	c
41	b	42	d	43	d	44	c	45	d

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