

۲.۰ آزمون

Date:

سری ۱۳ - آزمون

به الله الرحمن الرحيم

Subject

مجموعه B

$$a_1 + 4d = 91$$

$$40 + 4d = 91 \rightarrow 4d = 51 \rightarrow d = 12.75$$

$$a_n = 7n + 44 = 201$$

$$\Rightarrow 7n = 157 \rightarrow n = \frac{157}{7} = 22.428$$

$$100 \leq 7n + 44 \leq 999$$

$$56 \leq 7n \leq 954$$

$$8 \leq n \leq 136.28$$

$$8 \leq n \leq 136 \rightarrow \frac{136 - 8}{1} + 1 = 129$$

$$a_n = -2n + 11$$

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$$m(n+1) + \alpha + m(n+2) + \alpha + m(n+3) + \alpha = 3mn + 6m + 3\alpha = -4n + 12$$

$$* a_{11} = -2(11) + 11 = -11$$

$$+ a_n = -2(n) + 11 = -11$$

$$3m = -4 \Rightarrow m = -1.33$$

$$\rightarrow 3(-1.33) + 3\alpha = 12$$

$$\rightarrow \alpha = 1$$

$$n+1 \quad m \quad 2m \quad n+1$$

$$r^n = y \text{ و } n$$

$$y^2 - y + 1 = y^2 - 2 - 2y \rightarrow y^2 - 4y - 3 = 0$$

$$(y-6)(y+1) \rightarrow y < -1$$

$$a_3 + a_7 + a_{11} = y - 1 + 2y + y^2 - 2 \xrightarrow{y=6} 6 - 1 + 12 + 36 - 2 = 52$$

$$4d = 5 \rightarrow d = 1.25$$

مجموعه B

$$a_1 + 4d + a_{11} + d \rightarrow 2a_1 + 5d = 24$$

$$2a_1 = -25$$

$$a_1 = -12.5$$

$$a_n = a_1 + 4d$$

$$-12.5 + 5 = -7.5$$

MAHAN

$$\frac{\omega}{r} (a_1 + \epsilon d) = \frac{1}{r} \times \frac{\omega}{r} \Rightarrow \frac{\omega}{r} (a_1 + \epsilon d) \rightarrow \omega a_1 + \epsilon d = \frac{\omega}{r} a_1 + \frac{r\omega}{r} d \quad (4)$$

$$\frac{a}{r} (a_r + a_w) = \frac{a}{c} (a_r + a_{10}) \quad \left| \begin{array}{l} \rightarrow 4a_r + 5a_d = \frac{10}{c} a_r + 10d \\ \rightarrow 4a_r = 4d \rightarrow a_r = \frac{4d}{4} = \frac{10}{10} d \end{array} \right.$$

$$\Rightarrow \frac{1}{r} a_1 = \frac{2}{r} d \rightarrow a_1 = \frac{2d}{1} \Rightarrow a_1 = d *$$

$$\frac{a_r}{a_1} = \frac{1 \text{ wsd}}{0.1 \text{ wsd}} = \boxed{10} \quad \checkmark$$

10

$$\frac{z_n - z_{n-r}}{r} = \frac{rd}{r} = d = \omega \rightarrow d = \omega$$

$$\frac{(t_q - t_w)(t_q + t_w)}{t_v} = r_o \frac{(t_q + t_w + t_q - t_w)}{t_q + t_w} = r_o \frac{(t_q + t_w)}{t_q + t_w} = \{0\}$$

15

$$d = \frac{r + \sqrt{r} - r + r\sqrt{r}}{1r} = \frac{r\sqrt{r}}{1r} = \sqrt{r}$$

$\underbrace{r}_{\substack{\text{ist } r_{n-r}}} \quad \underbrace{rr}_{\substack{\text{ist } r_{n-1}}} \quad \text{u.} \quad a_{n-1} = rr \quad a_n = a_1 + (n-1)d$

$$a_{k+1} - 1 = r_2(k+1)cl = 4r$$

20

$$a_{n+1} = (1 - r)a_{n-1} - a_{n+1} = r$$

$$\lim_{n \rightarrow \infty} (x_n - r) \left(\frac{x_0}{x_n - r} \right) = r_1 \rightarrow \frac{q_0 n - q_0}{x_n - r} = r_1 \rightarrow \frac{1}{x} (x_n - r) = r_1$$

$$\Rightarrow r_{n-1} = \omega_{n-1}$$

$$Y_n = 9 \rightarrow n = 16$$

Date: _____

Subject: _____

$$a_1 + a_{n+\varepsilon} = a_r + a_v \rightarrow r_{AV} = n + n + \varepsilon \Rightarrow r_0 = r_n + \varepsilon \rightarrow n = 1 \text{ (1.0)}$$

$$a_n = r a_{\frac{n}{r}} \rightarrow a_{1+(n-1)d} = r \left[a_1 + \left(\frac{n}{r} - 1 \right) d \right] \rightarrow a + (n-1)d = r a_1 - r \frac{n}{r} d + r d = 0$$

$$= r a_1 + \frac{-n + \varepsilon}{r} d = 0$$

$$= (-n + \varepsilon) d = r a_1$$

$$\downarrow -d = a_1 \leftarrow -r d = r a_1 \leftarrow (-n + \varepsilon) d = r a_1 \leftarrow n \leftarrow$$

$$a_k = a \rightarrow a_k = a + (k-1)d$$

$$\rightarrow -d + (k-1)d \rightarrow d(k-2) = 0 \rightarrow \text{if } d \neq 0 \Rightarrow k-2 = 0$$

$$\Rightarrow k = 2$$