

الإجابة النموذجية للاختبار النهائي لمادة الرياضيات للفروع المشتركة (م)

السؤال الأول:

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(1) $(\text{جباي} - \frac{7}{5} + \frac{1}{2} \text{قاسي}) \text{سي} = -\text{جتاسي} - 6 \text{لواسي} + \frac{1}{2} \text{طاسي} + \text{ج}$

$(\text{ك}) \frac{1 + 5\text{ج}}{\sqrt{(5 - 5\text{ج} + 5\text{ج}^2)}} \text{سي}$

نفرض انه: $5\text{ج}^2 + 5\text{ج} - 5 = 0$
 $1 + 5\text{ج} = \frac{5\text{سي}}{\text{سي}}$
 $\frac{5\text{سي}}{1 + 5\text{ج}} = \text{سي}$

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$\left[\text{سي}^{\sqrt{7}} = \frac{\text{سي}}{7} + \text{ج} \right] = \frac{5\text{سي}}{1 + 5\text{ج}} \times \frac{1 + 5\text{ج}}{\sqrt{7}} =$

$\frac{\text{سي}^{\sqrt{7}} (5 - 5\text{ج} + 5\text{ج}^2)}{7} =$

(ب) $\left[\text{سي}^{\sqrt{\frac{2}{3}} (2 - \frac{\text{سي}}{3})} \right] = 0 \left[\text{سي}^{\sqrt{\frac{2}{3}}} - \frac{\text{سي}^{\sqrt{\frac{2}{3}}}}{3} \right] \left[\frac{1}{3} \right] \left[\text{سي}^{\sqrt{\frac{2}{3}}} (2 - \frac{\text{سي}}{3}) - (2 - \frac{\text{سي}}{3}) \right] = 0$

$\left[\frac{1}{3} \right] \left[\text{سي}^{\sqrt{\frac{2}{3}}} (2 - \frac{\text{سي}}{3}) = 2 - \frac{\text{سي}}{3} \right] \left[\frac{1}{3} \right] \left[\text{سي}^{\sqrt{\frac{2}{3}}} = 2 - \frac{\text{سي}}{3} \right] \left[\frac{1}{3} \right] \left[\text{سي}^{\sqrt{\frac{2}{3}}} = 2 - \frac{\text{سي}}{3} \right]$

$\left[\frac{1}{3} \right] \left[\text{سي}^{\sqrt{\frac{2}{3}}} = 2 - \frac{\text{سي}}{3} \right] \left[\frac{1}{3} \right] \left[\text{سي}^{\sqrt{\frac{2}{3}}} = 2 - \frac{\text{سي}}{3} \right]$

$\left[\text{سي}^{\sqrt{\frac{2}{3}}} (2 - \frac{\text{سي}}{3}) = 2 - \frac{\text{سي}}{3} \right] \left[\text{سي}^{\sqrt{\frac{2}{3}}} = 2 - \frac{\text{سي}}{3} \right] \left[\text{سي}^{\sqrt{\frac{2}{3}}} = 2 - \frac{\text{سي}}{3} \right] \left[\text{سي}^{\sqrt{\frac{2}{3}}} = 2 - \frac{\text{سي}}{3} \right]$

$6 = 12 + 8 = \frac{24}{2} + 8 = \frac{1}{2} + \frac{16}{2} + 8 = \left[\frac{\text{سي}^{\sqrt{\frac{2}{3}}}}{2} + 6 + 2 \right] \left[\frac{\text{سي}^{\sqrt{\frac{2}{3}}}}{2} + 6 + 2 \right]$

(ج) $\text{سي}^{\sqrt{2}} = (2 - \frac{\text{سي}}{3})^{\sqrt{2}}$

نفرض انه
 $2 - \frac{\text{سي}}{3} = \text{سي}$
 $\frac{5\text{سي}}{2} = \text{سي}$

$\left[\text{سي}^{\sqrt{2}} = (2 - \frac{\text{سي}}{3})^{\sqrt{2}} \right] \left[\text{سي}^{\sqrt{2}} = (2 - \frac{\text{سي}}{3})^{\sqrt{2}} \right] \left[\text{سي}^{\sqrt{2}} = (2 - \frac{\text{سي}}{3})^{\sqrt{2}} \right]$
 $\left[\frac{\text{سي}}{16} + \text{ج} = \frac{5\text{سي}}{2} \right] \left[\frac{\text{سي}}{16} + \text{ج} = \frac{5\text{سي}}{2} \right] \left[\frac{\text{سي}}{16} + \text{ج} = \frac{5\text{سي}}{2} \right]$
 $\left[\frac{\text{سي}}{16} + \frac{2(2 - \frac{\text{سي}}{3})}{11} = (2 - \frac{\text{سي}}{3}) \right] \left[\frac{\text{سي}}{16} + \frac{2(2 - \frac{\text{سي}}{3})}{11} = (2 - \frac{\text{سي}}{3}) \right]$

لكن (1) $\text{سي} = 1$ $\left[\frac{\text{سي}}{16} + \frac{2(2 - \frac{\text{سي}}{3})}{11} = (2 - \frac{\text{سي}}{3}) \right]$

$\left[\frac{\text{سي}}{16} + \frac{2(2 - \frac{\text{سي}}{3})}{11} = (2 - \frac{\text{سي}}{3}) \right] \left[\frac{\text{سي}}{16} + \frac{2(2 - \frac{\text{سي}}{3})}{11} = (2 - \frac{\text{سي}}{3}) \right]$

السؤال الثاني:

(P) فردى = 10

$$P + P = 10 \rightarrow P = 5 \rightarrow 1 = 10 - 5 = 5 \text{ (عدد التكامل)}$$

$$\frac{1}{7} = \left(\frac{3+5}{7} \right) - \left(\frac{1}{7} + \frac{1}{7} \right) - (0) = \left[\left(\frac{8}{7} - \frac{2}{7} \right) - 0 \right] = \frac{6}{7} = P$$

$$\frac{1}{7} = \left| \frac{1}{7} \right| = P \text{ و حصة وربع}$$

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(B) فردى = 10

$$10 - 4 = 6 \rightarrow \frac{6}{2} = 3 \rightarrow 10 = 3 + 7 \rightarrow 10 = 1$$

$$10 = 3 + 7 = 10 \rightarrow 10 = 10$$

$$10 \times 10 - 10(10 - 4) = 10 \times 6 - 10(6) = 60 - 60 = 0$$

$$10 - (0) - \left(\frac{3}{2} - 4 \right) = 10 - \left[\left(\frac{3}{2} - 4 \right) - 10 \right] = 10 - \left(\frac{3}{2} - 4 - 10 \right) = 10 - \left(\frac{3}{2} - 14 \right) = 10 - \left(\frac{3 - 28}{2} \right) = 10 - \left(\frac{-25}{2} \right) = 10 + \frac{25}{2} = \frac{20 + 25}{2} = \frac{45}{2} = 22.5$$

$$10 = 10 - 31 = 10 - \frac{62}{2} = 10 - \frac{31}{1} = 10 - 31 = -21$$

$$7 = (1-1) - (P-2) \rightarrow 7 = \left[(1-1) - (P-2) \right] = 1 - (P-2) = 1 - P + 2 = 3 - P \rightarrow P = 3 - 7 = -4$$

$$P = 3 - 7 = -4 \rightarrow P = 3 - 7 = -4$$

السؤال الثالث:

$$P \text{ عدد الطرق} = \binom{0}{0} + \binom{0}{4} + \binom{0}{2} = 1 + 0 + 0 = 1$$

$$17 = 1 + 0 + 1 = \frac{1}{1} + \frac{3 \times 2 \times 1}{1 \times 5 \times 4} + \frac{3 \times 2 \times 1}{1 \times 5 \times 4}$$

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(ب) (ا) $\hat{P} = 5P + 6$

$\boxed{6 = C} \leftarrow 6 = 12 - 18 = 6 \times 2 - 18 = \overline{5P} - \overline{6P} = C \leftarrow$

$\therefore \hat{P} = 5C + 6$

(ج) الخطأ في التنبؤ = القيمة الحقيقية - القيمة (مطبناً بها)

$\leftarrow 7 = 5 \leftarrow \leftarrow 7 = 6 + 7 \times C = \hat{P} \leftarrow$

\therefore الخطأ = $6 - 7 = C$

(ج) $\overline{5P} = \frac{3}{5} = \frac{3 \times 5}{5} = \frac{15}{5} = 3$ $\overline{6P} = \frac{24}{6} = \frac{4 \times 6}{6} = \frac{24}{6} = 4$

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بي	بي	$\overline{5P} - \overline{6P}$	$(\overline{5P} - \overline{6P})(\overline{5P} - \overline{6P})$	$(\overline{5P} - \overline{6P})^2$	$(\overline{5P} - \overline{6P})^2$
6	5	1	1	1	1
7	6	1	1	1	1
5	4	1	1	1	1
3	1	2	4	4	4
5	5	0	0	0	0
4	3	1	1	1	1
المجموع		صفرا	صفرا	14	16

$\sqrt{\frac{14}{16.6}} = \sqrt{\frac{14}{16 \times 1.1}} = \sqrt{\frac{(\overline{5P} - \overline{6P})(\overline{5P} - \overline{6P})}{(\overline{5P} - \overline{6P})^2 \times (\overline{5P} - \overline{6P})}} = \sqrt{\dots} = \dots$

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السؤال الرابع:

(P) $K(5) = (K(5) \times 5) = (3 \times 5 + 4 \times 5 + 2 \times 5) = 5(3 + 4 + 2) = 5 \times 9 = 45$

$\therefore K(5) = 3 \times 5 + 4 \times 5 + 2 \times 5 = 45$

$45 = 3 \times 5 + 4 \times 5 + 2 \times 5 = 15 + 20 + 10 = 45$ دينار

(ب) ف (٧) = $\binom{7}{0} = 1$ ، $\binom{7}{1} = 7$ ، $\binom{7}{2} = 21$ ، $\binom{7}{3} = 35$ ، $\binom{7}{4} = 35$ ، $\binom{7}{5} = 21$ ، $\binom{7}{6} = 7$ ، $\binom{7}{7} = 1$

← ف (٧) = $7 + 21 + 35 = 63$

← لكن ف (٧) = ٦

← ف (٧) = $٦ = ٦ + \dots = ٦$ ← ٦ = ٦

∴ ف (٧) = $٦ + ٢١ + ٣٥ = ٦٢$

ف (٣) = $٣ = ٦ + ٩ - ٥٤ = ٦ + ٩ - ٧ \times ٤ = ٣$

(ج) $\binom{7}{1} = \binom{7}{6}$

← ١ = ٦

← $١ + ٦ = ٧$ ← ٧ = ٦

السؤال الخامس:

(P) يد على ظهور الصورة

$\Omega = \{١١١١١١١, ١١١١١١٢, ١١١١١٢٢, ١١١١٢٢٢, ١١١٢٢٢٢, ١١٢٢٢٢٢, ١٢٢٢٢٢٢, ٢٢٢٢٢٢٢\}$

$\Omega = \{١, ٢, ٣, ٤, ٥, ٦\}$

٣	٢	١	٠	٦
$\frac{1}{8}$	$\frac{3}{8}$	$\frac{3}{8}$	$\frac{1}{8}$	d(٦)

← $d(٦) = \frac{1}{8} = (٠ = ٦)$

$d(١) = \frac{3}{8} = (١ = ٦)$

$d(٢) = \frac{3}{8} = (٢ = ٦)$

$d(٣) = \frac{1}{8} = (٣ = ٦)$

✓ $d(٦) = ١$

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(ب) $M = 100$ ، $n = 70$ ، العدد الكلي = $100 \dots$

عدد الطلبة = الاحتمال \times العدد الكلي

$$d = (50 \leq n \leq 70) \times 100$$

$$\leftarrow d = (50 \leq n \leq 70) \Rightarrow \frac{100-50}{1} \geq \frac{100-n}{5} \geq \frac{100-70}{1}$$

$$d = \left(\frac{3}{7} \geq n \geq \frac{3}{7} \right) \Rightarrow (-10 \geq n \geq 1)$$

$$d = (n \geq 1) - (n \geq 10)$$

$$d = (n \geq 1) - (1 - (n \geq 10))$$

$$= 17343 - (1 - 7910) = 17343 - 1089 = 16254$$

$$= 16254$$

\therefore عدد الطلبة = $16254 = 50 \times 325$ ، $100 \times 16254 = 1625400$ = عدد الطلاب

$$(ج) d = (n \leq 2) = d + (n=2) + (n=1) = (n=2) + (n=1) = \binom{2}{n} \binom{p-1}{p-n}$$

$$\leftarrow d = (n=2) = \binom{2}{2} \binom{11}{11-2} = \binom{2}{2} \binom{11}{9} = \frac{1}{1} \times \frac{11!}{2!9!} = \frac{11 \times 10}{2} = 55$$

$$\leftarrow d = (n=1) = \binom{1}{1} \binom{11}{11-1} = \binom{1}{1} \binom{11}{10} = \frac{1}{1} \times \frac{11!}{1!10!} = 11$$

$$\therefore d = (n \leq 2) = 55 + 11 = 66$$

$$(د) \frac{\Delta n}{n} = \frac{m}{n} - \frac{m-1}{n-1} \leftarrow \frac{10}{1} = \frac{12}{1} - \frac{m-1}{n-1} \Rightarrow \frac{m-1}{n-1} = \frac{12}{1} - 10 = 2$$

أتمنى (التوفيق للجميع)