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P(1, -9, 2) F(1, -9, 2) $(\mu, \mu + 1, \mu + 2)$ $i \cdot j \cdot k$ PF(j + j + k) = 0 $\Rightarrow \mu - 1 + \mu + 10 + \mu = 0 \Rightarrow = -3$ F(-3, -2, -1) So PF = $\sqrt{16 + 49 + 9} = \sqrt{74}$ 17. Three dice are rolled. If the probability of getting different numbers on the three dice is $\frac{P}{q}$ , where p and q are co-prime, then q - p is equal to (1) 4 (2) 2 (3) 3 (4) 1 NTA Ans. (1) Reso Ans.(1) Sol. Total number of outcomes = 6 × 6 × 6 Total number of avourable out comes = 6 × 5 × 4 So probability = $\frac{5}{9} = \frac{P}{q}$ 18. A plane P contains the line of intersection of planes $\vec{r} \cdot (\hat{i} + \hat{j} + \hat{k}) = 6$ and $\vec{r} \cdot (2\hat{i} + 3\hat{j} + 4\hat{k}) = -5$ . If P passes through the point (0,2,-2), then square of distance of point (12,12,18) from the plane P is (1) 310 (2) 1240 (3) 620 (4) 155 NTA Ans. (3) Reso Ans.(3) Sol. Given planes P_1 : x + y + z - 6 = 0 P_2 : 2x + 3y + 4z + 5 = 0 Equation of plane passing through line of intersection of P= 0 & k P = 0 is P_1 + 2P = 0		250N3NCe <sup>®</sup>   JEE(Main) 202	23   DATE : 06-04-202	23 (SHIFT-2)	PAPER-1   MA	THEMATIC	s	
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<b>17.</b> Three dice are rolled. If the probability of getting different numbers on the three dice is $\frac{P}{q}$ , where p and $q$ are co-prime, then $q - p$ is equal to (1) 4 (2) 2 (3) 3 (4) 1 <b>NTA Ans. (1)</b> <b>Reso Ans.(1)</b> <b>Sol.</b> Total number of automate $6 \times 6 \times 6$ Total number of favourable out comes $= 6 \times 5 \times 4$ So probability $= \frac{5}{9} = \frac{p}{q}$ <b>18.</b> A plane P contains the line of intersection of planes $\overline{r} \cdot (\hat{i} + \hat{j} + \hat{k}) = 6$ and $\overline{r} \cdot (2\hat{i} + 3\hat{j} + 4\hat{k}) = -5$ . If P passes through the point (0,2,-2), then square of distance of point (12,12,18) from the plane P is (1) 310 (2) 1240 (3) 620 (4) 155 <b>NTA Ans. (3)</b> <b>Reso Ans.(3)</b> <b>Sol.</b> Given planes P1: $x + y + z - 6 = 0$ P2: $2x + 3y + 4z + 5 = 0$ Equation of plane passing through line of intersection of Planes $\overline{r} = 0$ P1 = 0, $A$ , P2 = 0 is P1 + 2P2 = 0								
F ( $\mu$ , $\mu$ + 1, $\mu$ + 2) i+j+k $\overrightarrow{PF}(i+j+k) = 0$ $\Rightarrow \mu \cdot 1 + \mu + 10 + \mu = 0 \Rightarrow = -3$ F(-3, -2, -1) So PF = $\sqrt{16+49+9} = \sqrt{74}$ 17. Three dice are rolled. If the probability of getting different numbers on the three dice is $\frac{p}{q}$ , where p and q are co-prime, then q – p is equal to (1) 4 (2) 2 (3) 3 (4) 1 NTA Ans. (1) Reso Ans.(1) Sol. Total number of outcomes = $6 \times 6 \times 6$ Total number of favourable out comes = $6 \times 5 \times 4$ So probability = $\frac{5}{9} = \frac{p}{q}$ 18. A plane P contains the line of intersection of planes $\vec{r}.(\hat{1}+\hat{1}+\hat{k}) = 6$ and $\vec{r}.(2\hat{1}+3\hat{1}+4\hat{k}) = -5$ . If P passes through the point (0,2,-2), then square of distance of point (12, 12, 18) from the plane P is (1) 310 (2) 1240 (3) 620 (4) 155 NTA Ans. (3) Reso Ans.(3) Sol. Given planes P1: $x + y + z - 6 = 0$ P2: $2x + 3y + 4z + 5 = 0$ Equation of plane passing through line of intersection of P1 = 0. & P2 = 0 Equation of plane passing through line of intersection of P1 = 0. & P2 = 0 Equation of plane passing through line of intersection of P1 = 0. & P2 = 0 Equation of plane passing through line of intersection of P1 = 0. & P2 = 0 Equation of plane passing through line of intersection of P1 = 0. & P2 = 0 Equation of plane passing through line of intersection of P1 = 0. & P2 = 0 Equation of plane passing through line of intersection of P1 = 0. & P2 = 0 Equation do plane passing through line of intersection of P1 = 0. & P2 = 0 Equation do plane passing through line of intersection of P1 = 0. & P2 = 0 Equation do plane passing through line of intersection of P1 = 0. & P2 = 0 Equation do plane passing through line of intersection of P1 = 0. & P2 = 0 Equation do plane passing through line of intersection of P1 = 0. & P2 = 0 Equation do plane passing through line of intersection of $Equation do plane passing through line of intersection of Equation do plane passing through line of intersection of Equation do plane passing through line of intersection dof$		esonance <sup>®</sup> Res						
$(\mu, \mu + 1, \mu + 2) = \hat{i} + \hat{j} + \hat{k}$ $\overrightarrow{PF}(\hat{i} + \hat{j} + \hat{k}) = 0$ $\Rightarrow \mu \cdot 1 + \mu + 10 + \mu = 0 \Rightarrow = -3$ $F(-3, -2, -1)$ So PF = $\sqrt{16 + 49 + 9} = \sqrt{74}$ 17. Three dice are rolled. If the probability of getting different numbers on the three dice is $\frac{P}{q}$ , where p and q are co-prime, then q - p is equal to (1) 4 (2) 2 (3) 3 (4) 1 NTA Ans. (1) Reso Ans. (1) Sol. Total number of outcomes = $6 \times 6 \times 6$ Total number of favourable out comes = $6 \times 5 \times 4$ So probability = $\frac{5}{9} = \frac{P}{q}$ 18. A plane P contains the line of intersection of planes $\vec{r} \cdot (\hat{i} + \hat{j} + \hat{k}) = 6$ and $\vec{r} \cdot (2\hat{i} + 3\hat{j} + 4\hat{k}) = -5$ . If P passes through the point (0,2,-2), then square of distance of point (12,12,18) from the plane P is (1) 310 (2) 1240 (3) 620 (4) 155 NTA Ans. (3) Reso Ans.(3) Sol. Given planes P_1 : x + y + z - 6 = 0 P_2 : 2x + 3y + 4z + 5 = 0 Equation of plane passing through line of intersection of Plane P is (1) - 2 + 2 + 2 + 2 + 2 = 0			Rescharter tor					
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Equation of plane passing through line of intersection of $P_1 = 0$ & $P_2 = 0$ is $P_1 + \lambda P_2 = 0$		P <sub>2</sub> : 2x + 3y + 4z +5 =0						
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(1 + 2 λ) x + (1 + 3 λ) y + (1 + 4 λ) z + (5 λ - 6) = 0								
It passes through (0, 2,-2)		It passes through (0, 2,-2						
$2(1+3\lambda) + 6(1+4\lambda)(-2) + 5\lambda - 6 = 0$		2( <mark>1+3</mark> λ) + 6(1+4 λ) (–2) +	5 <mark>λ–6</mark> = 0					
$2 + 6\lambda - 2 - 8\lambda + 5\lambda - 6 = 0$		$2 + 6\lambda - 2 - 8\lambda + 5\lambda - 6 = 0$ 3 \lambda - 6 = 0 \lambda = 2						

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