

Time: 30 Minutes	Paper Math 8 (T-1)	Total Marks: 25
4th Month, 1st Week, 6th Day	Revision Test (1st Week)	

Q.1. Choose the correct options. (1 x 10 = 10) درست جواب کا انتخاب کریں۔

(i) What is the degree in the polynomial $x^3 - xy + 1$? $x^3 - xy + 1$ کی کثیرتی کا درجہ کیا ہے؟

(a)	1	(b)	2	(c)	3	(d)	4
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(ii) What is constant in $7x - 6y + 3z$? $7x - 6y + 3z$ میں مستقل کون سا ہے؟

(a)	7, -6 and 3	(b)	6, 5 and 2	(c)	4, 3 and 1	(d)	9, 8 and 7
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(iii) What is the degree in the polynomial $x^2 + x$? $x^2 + x$ کی کثیرتی کا درجہ کیا ہے؟

(a)	2	(b)	3	(c)	1	(d)	4
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(iv) $4x^3 + 3x^2 + 2x =$ _____.

(a)	$x(4x^2 + 3x + 2)$	(b)	$2x^2\left(4x + 3 + \frac{2}{x}\right)$	(c)	$2x(x^3 + 3x + 2)$	(d)	$2x^2\left(x + \frac{3}{x} + \frac{2}{x^2}\right)$
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(v) Factorization of $x^2 - 7x + 2x - 14$ is: $x^2 - 7x + 2x - 14$ کی تجزی ہے:

(a)	$(x + 2)(x - 7)$	(b)	$(x + 3)(x - 3)$	(c)	$(x + 2)(x - 2)$	(d)	$(x + 7)(x - 7)$
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(vi) $xy^4 - 3xy^3 - 6xy^2 =$ _____.

(a)	$xy(x^2 - 3x + 6)$	(b)	$xy(x^3 - 4x + 6)$	(c)	$yz(x^2 + 3x + 6)$	(d)	$xy^2(y^2 - 3y - 6)$
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(vii) What is the factorization of $xy + xz$? $xy + xz$ کی تجزی کیا ہے:

(a)	$z(x + y)$	(b)	$y(x + z)$	(c)	$x(y + z)$	(d)	$x^2 + y^2$
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(viii) Evaluate $(95)^2$ (95)² حل ہے۔

(a)	9050	(b)	9025	(c)	9075	(d)	9090
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(ix) What is the square of 53. 53 کا مربع ہے۔

(a)	2809	(b)	2807	(c)	2805	(d)	2803
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(x) $x^2 - 34x + 289 =$ _____.

(a)	$(x + 17)^2$	(b)	$\pm(x + 17)$	(c)	$(x - 17)^2$	(d)	$(x + 17)(x - 17)$
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☆ Answer the following questions: (2×5=10) درج ذیل سوالات کے جواب دیں۔

1. Find the value of $x - 2y + 3z = Q_2$ where $x = 2a^2 - a^3 + 3a + 4$, $y = 2a^3 - 3a^2 + 2 - 2a$ and $z = a^4 + 3a^3 - 6 - 5a^2$

$x = 2a^2 - a^3 + 3a + 4$, $y = 2a^3 - 3a^2 + 2 - 2a$ کی قیمت معلوم کریں جب کہ $x - 2y + 3z =$ اور $z = a^4 + 3a^3 - 6 - 5a^2$

2. For what value of p the polynomial $3x^3 - 7x^2 - 9x + p$ becomes exactly divisible by $x - 3$?

P کی کس قیمت کے لیے کثیرتی $3x^3 - 7x^2 - 9x + p$ جو $x - 3$ پر پورا پورا تقسیم ہو۔

3. Separate the polynomial expression and expression that are not polynomials. کثیرتی اور جو کثیرتی نہیں ان کو الگ کریں:

(i) $x^2 + y + 7$

(ii) $x^4 + x^2 + 5x + \frac{1}{2}$

(iii) $\frac{x}{y^2} + 1 - \frac{y^2}{x}$

(iv) $x^4 - x^3 + x^2$

4. Find the value of $x^2 + \frac{1}{x^2}$ when $x + \frac{1}{x} = 7$.

$x^2 + \frac{1}{x^2}$ کی قیمت معلوم کریں جب کہ $x + \frac{1}{x} = 7$ ہو۔

5. Factorize the following:

درج ذیل کی تجزی کریں۔

(i) $x^2 - 13x - 2x + 26$

(ii) $x^2 - 8x - 4x + 32$

(iii) $ab(x + 7) + cd(x + 7)$

Q.3. Factorize:

(2.5×2 = 5)

تجزی کریں۔

(i) $1 - 6a^2b^2c + 9a^4b^4c^2$

(ii) $4x^4 + 20x^3yz + 25x^2y^2z^2$

