**Mathematics**

**Subject: Mathematics**

**Domain: B- Linear Equations and Inequalities**

**Grade:**-8

**Unit 7 :** **Linear Equations and Inequalities**

**Type of Assessment: Formative**

**SLO: ( M-08-B-05)**

**Type of Task: CRQ**

**Level of SLO: Comprehension**

**Task:** In the following equation is (a) 975 (b) x72 (c) 2x-4=2 **(03 Marks)**

**Level of Item: Comprehension**

|  |  |  |
| --- | --- | --- |
| **Expected Response** | **Skill Observed** | **Score** |
| d) 2x-4=2 | Difference between equation integration algebraic expression and sentence | (01 Marks) |

**Name and Signature**

Dr.M. Anwer

**Reviewer Comments:**

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**Name and Signature Reviewer**

**Mathematics**

**Subject: Mathematics**

**Domain: B- Linear Equations and Inequalities**

**Grade:**-8

**Unit 7 :** **Linear Equations and Inequalities**

**Type of Assessment: Formative**

**SLO: ( M-08-B-05)**

**Type of Task: SRQ**

**Level of SLO: Comprehension**

**Task:** In the following (a) -2x75 (b) 2xx375 (c) 2x+3y = 2 (d) 2x+3y+2 (e) x=2 (f) x2< -9 (g) x+2 . identify (i) Algebraic Expression , (ii) Equation (iii) In-quality **(03 Marks)**

**Level of Item: Comprehension**

|  |  |  |
| --- | --- | --- |
| **Expected Response** | **Skill Observed** | **Score** |
| i. 2x+3y+2  x+2  ii. 2x+3y= 2  x=2  iii. -2x75  x+2 <-9 | Recognizing Algebraic Expression  Recognizing equation  Recognizing Inequality | (01 Marks)  (01 Marks)  (01 Marks) |

**Name and Signature**

Dr.M. Anwer

**Reviewer Comments:**

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**Name and Signature Reviewer**

**Mathematics**

**Subject: Mathematics**

**Domain: B- Linear Equations and Inequalities**

**Grade:**-8

**Unit 7 :** **Linear Equations and Inequalities**

**Type of Assessment: Formative**

**SLO: ( M-08-B-06)**

**Type of Task: SRQ**

**Level of SLO: Comprehension**

**Task:** Perfrom the fellowing operation: X+Y+2) + (2x-3y-1) **(03 Marks)**

**Level of Item: Comprehension**

|  |  |  |
| --- | --- | --- |
| **Expected Response** | **Skill Observed** | **Score** |
| (x+y+2) + (2x-3y-1)  = x+y+2 + 2x-3y-1  = x+2x+y -3y+2-1  = 3x-2y+1 | Open breach of  Arranging like term  Addition of like terms | (01 Marks)  (01 Marks)  (01 Marks) |

**Name and Signature**

Dr.M. Anwer

**Reviewer Comments:**

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**Name and Signature Reviewer**

**Mathematics**

**Subject: Mathematics**

**Domain: B- Linear Equations and Inequalities**

**Grade:**-8

**Unit 7 :** **Linear Equations and Inequalities**

**Type of Assessment: Formative**

**SLO: ( M-08-B-06)**

**Type of Task: SRQ**

**Level of SLO: Comprehension**

**Task:** Solve: (4x-3y+3) – (2x-y-4) **(03 Marks)**

**Level of Item: Comprehension**

|  |  |  |
| --- | --- | --- |
| **Expected Response** | **Skill Observed** | **Score** |
| (4 x-3y+3) – (2x-y-4)  = 4x-3y+3-2x+y+4  = 4x-2n-3y+y+3+4  = 2x -2y+7 | Open breach  Arranging in like terms  Adding like terms | (01 Marks)  (01 Marks)  (01 Marks) |

**Name and Signature**

Dr.M. Anwer

**Reviewer Comments:**

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**Name and Signature Reviewer**

**Mathematics**

**Subject: Mathematics**

**Domain: B- Linear Equations and Inequalities**

**Grade:**-8

**Unit 7 :** **Linear Equations and Inequalities**

**Type of Assessment: Formative**

**SLO: ( M-08-B-07)**

**Type of Task: SRQ**

**Level of SLO: Comprehension**

**Task:** Solve: (x-y) x (x-2) **(02 Marks)**

**Level of Item: Comprehension**

|  |  |  |
| --- | --- | --- |
| **Expected Response** | **Skill Observed** | **Score** |
| (x-y) x (x-2)  = x(x-2) –y (n-2)  = x2-2x-xy+2y | Multiplication  Multiplication | (01 Marks)  (01 Marks) |

**Name and Signature**

Dr.M. Anwer

**Reviewer Comments:**

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**Name and Signature Reviewer**

**Mathematics**

**Subject: Mathematics**

**Domain: B- Linear Equations and Inequalities**

**Grade:**-8

**Unit 7 :** **Linear Equations and Inequalities**

**Type of Assessment: Formative**

**SLO: ( M-08-B-07)**

**Type of Task: SRQ**

**Level of SLO: Comprehension**

**Task:** Solve: (2X-3) (5X-7Y) **(03 Marks)**

**Level of Item: Comprehension**

|  |  |  |
| --- | --- | --- |
| **Expected Response** | **Skill Observed** | **Score** |
| ( 2n-3) x (5x-7y)  = 2x (5x-7y) -3 (5x-7y)  = 2.5 xx-2.7-x-y-3.5x + 3.7 y  = 10x2-14xy-15x+21y | Multiplication  Multiplication | (01 Marks)  (01 Marks) |

**Name and Signature**

Dr.M. Anwer

**Reviewer Comments:**

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**Name and Signature Reviewer**

**Mathematics**

**Subject: Mathematics**

**Domain: B- Linear Equations and Inequalities**

**Grade:**-8

**Unit:** 7- **Linear Equations and Inequalities**

**Type of Assessment: Summative & Formative**

**SLO:( M-08-A-23)**

**Type of Task: ERQ**

**Level of SLO: Comprehension**

**Task:**Solve (x3 - 3x2 + 3x – 1) ÷ (x – 1)  **(03 Marks)**

**Level of Item: Comprehension**

|  |  |  |
| --- | --- | --- |
| **Expected Response** | **Skill Observed** | **Score** |
| X – 1 √x3-3x2+3x-1Ix2-2x+1  **-** x3-x2  -2x2+3x  -+2x±2x  X-1  ±x-1  0 | Division  Division  Division  Division  Division | (01 marks)  (01 marks)  (01 marks)  (01 marks)  (01 marks) |

**Name and Signature**

Dr.M. Anwer

**Reviewer Comments:**

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Name and Signature Reviewer**

**Mathematics**

**Subject: Mathematics**

**Domain: B- Linear Equations and Inequalities**

**Grade:**-8

**Unit:** 5-Sets

**Type of Assessment: Summative & Formative**

**SLO:( M-08-A-23)**

**Type of Task: ERQ**

**Level of SLO: Comprehension**

**Task:Solve: (8x3 + 36x2 + 54x + 24) ÷ (2x+3)**  **(03 Marks)**

**Level of Item: Comprehension**

|  |  |  |
| --- | --- | --- |
| **Expected Response** | **Skill Observed** | **Score** |
| 2X +3√8x3-36x2+54x+27  **±8**x3±2x2  24x+54x  -+24x2±36x  18x 27  ±18x±27  0 | Division  Division  Division  Division  Division | (01 marks)  (01 marks)  (01 marks)  (01 marks)  (01 marks) |

**Name and Signature**

Dr.M. Anwer

**Reviewer Comments:**

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**Name and Signature Reviewer**

**Mathematics**

**Subject: Mathematics**

**Domain: B- Linear Equations and Inequalities**

**Grade:**-8

**Unit:** 7- **Linear Equations and Inequalities**

**Type of Assessment: Summative & Formative**

**SLO:( M-08-A-23)**

**Type of Task: ERQ**

**Level of SLO: Comprehension**

**Task:Solve: Simplify the algebraic expression: 2(x – 3y)+ 5(2x –y)+7**  **(03 Marks)**

**Level of Item: Comprehension**

|  |  |  |
| --- | --- | --- |
| **Expected Response** | **Skill Observed** | **Score** |
| 2(x-3y)+5(2x-y)+7  2x – 6y +10x-5y+7  2x + 10x -6y-5y+7  12x-11y+7 | Multiplication  Arranging Line term  Adding / Sub line terms | (01 marks)  (01 marks)  (01 marks)  ( |

**Name and Signature**

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**Reviewer Comments:**

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**Name and Signature Reviewer**

**Mathematics**

**Subject: Mathematics**

**Domain: B- Linear Equations and Inequalities**

**Grade:**-8

**Unit:** 7- **Linear Equations and Inequalities**

**Type of Assessment: Summative & Formative**

**SLO:( M-08-A-23)**

**Type of Task: ERQ**

**Level of SLO: Comprehension**

**Task:Solve: Simplify the algebraic expression: -2(3x –2y)- 5(-x +2y-1)**  **(03 Marks)**

**Level of Item: Comprehension**

|  |  |  |
| --- | --- | --- |
| **Expected Response** | **Skill Observed** | **Score** |
| -2(3x –2y)- 5(-x +2y-1)  -6x+4y+5x-10y+5  -x-6y+5 | Multiplication  Arranging Line term  Adding / Sub line terms | (01 marks)  (01 marks)  (01 marks) |

**Name and Signature**

Dr.M. Anwer

**Reviewer Comments:**

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**Name and Signature Reviewer**

**Mathematics**

**Subject: Mathematics**

**Domain: B- Linear Equations and Inequalities**

**Grade:**-8

**Unit:** 7- **Linear Equations and Inequalities**

**Type of Assessment: Summative & Formative**

**SLO:( M-08-A-23)**

**Type of Task: ERQ**

**Level of SLO: Comprehension**

**Task:Solve: x2-6y applying algebraic identifying 1.0×0.99**  **(03 Marks)**

**Level of Item: Comprehension**

|  |  |  |
| --- | --- | --- |
| **Expected Response** | **Skill Observed** | **Score** |
| 1.0×0.99  (1+0.01)×(1-0.01)  = (1)2 – (0.01)2  =1-0.0001  0.999 | Add +Sub  Applying Formula  (a+b)(a-b)=a2-b2  Multiplying  Subtraction | 02=(1+1)  (01 marks)  (01 marks)  01 |

**Name and Signature**

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**Reviewer Comments:**

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**Name and Signature Reviewer**

**Mathematics**

**Subject: Mathematics**

**Domain: B- Linear Equations and Inequalities**

**Grade:**-8

**Unit:** 7- **Linear Equations and Inequalities**

**Type of Assessment: Summative & Formative**

**SLO:( M-08-A-23)**

**Type of Task: ERQ**

**Level of SLO: Comprehension**

**Task:Solve: Expand (2s+1/2)2 by applying algeribic identity**  **(03 Marks)**

**Level of Item: Comprehension**

|  |  |  |
| --- | --- | --- |
| **Expected Response** | **Skill Observed** | **Score** |
| (2s+1/2)2  = (2s)2 + 2(2a) + (1/2)2  = 4a2 + 2a + 1/4 | Applying the formula  (a+b)2=a2+2ab+b2  Applying low and specification | 01  1+1 |

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**Name and Signature Reviewer**

**Mathematics**

**Subject: Mathematics**

**Domain: B- Linear Equations and Inequalities**

**Grade:**-8

**Unit:** 7- **Linear Equations and Inequalities**

**Type of Assessment: Summative & Formative**

**SLO:( M-08-A-23)**

**Type of Task: ERQ**

**Level of SLO: Comprehension**

**Task:Solve: Factorize :¼ L2 – 1/3 Lm + 1/9 m2**  **(03 Marks)**

**Level of Item: Comprehension**

|  |  |  |
| --- | --- | --- |
| **Expected Response** | **Skill Observed** | **Score** |
| ¼ L2 – 1/3 Lm + 1/9 m2  = (1/2 L)2 – 2(1/2L) (1/3m) + (1/3)2  = ((1/2L – 1/3m)2 | Applying in the form of a2-2ab+b2  Applying the identify  A2-2ab+b2  =(a-b)2 | 1+1=02  01 |

**Name and Signature**

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**Name and Signature Reviewer**

**Mathematics**

**Subject: Mathematics**

**Domain: B- Linear Equations and Inequalities**

**Grade:**-8

**Unit:** 5-Sets

**Type of Assessment: Summative & Formative**

**SLO:( M-08-A-23)**

**Type of Task: ERQ**

**Level of SLO: Comprehension**

**Task:Solve: Factorize by applying algebraic identities :¼x2+x+1+1-y2**  **(03 Marks)**

**Level of Item: Comprehension**

|  |  |  |
| --- | --- | --- |
| **Expected Response** | **Skill Observed** | **Score** |
| ¼ x2 +x+1+1-y2  =(1/2x)2 + 2(1/2x)(1)+(1)2 – y2  =(1/2x+1)2 – (y)2  =(1/2x+1+y) (1/2x+1-y)  =(1/2x+y+1) (1/2x-y+1) | Applying in the form of a2-2ab+b2=(a+b)  Applying the identify  A2-2ab+b2  =(a-b)2  Arranging | 1+1=02  01  01 |

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**Reviewer Comments:**

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**Name and Signature Reviewer**

**Mathematics**

**Subject: Mathematics**

**Domain: B- Linear Equations and Inequalities**

**Grade:**-8

**Unit:** 7- **Linear Equations and Inequalities**

**Type of Assessment: Summative & Formative**

**SLO:( M-08-A-23)**

**Type of Task: ERQ**

**Level of SLO: Comprehension**

**Task:Solve: Expand by applying the algebraic identify (3x+1/3)3**  **(04 Marks)**

**Level of Item: Comprehension**

|  |  |  |
| --- | --- | --- |
| **Expected Response** | **Skill Observed** | **Score** |
| (3x+1/3)3  =(3x)3 + 3(3x)2(1/3) + 3(3x) (1/3)2+(1/3)2  =27x3+9x2+9x2+ x+1/27 | Applying in the form of (a+b)3= a3+3ab=3ab2+b3  Simplifying | 1+1=02  1+1=02 |

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\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Name and Signature Reviewer**

**Mathematics**

**Subject: Mathematics**

**Domain: B- Linear Equations and Inequalities**

**Grade:**-8

**Unit:** 7- **Linear Equations and Inequalities**

**Type of Assessment: Summative & Formative**

**SLO:( M-08-A-23)**

**Type of Task: ERQ**

**Level of SLO: Comprehension**

**Task:Solve: (1/3x-3)3**  **(04 Marks)**

**Level of Item: Comprehension**

|  |  |  |
| --- | --- | --- |
| **Expected Response** | **Skill Observed** | **Score** |
| (1/3x-3)3    =(1/3x)3-3 (1/3x)+3(1/3)(3)2-(3)3  +  =1/27x3-x2+9x2-27 | Applying in the form of (a-b)3= a3-3a2b=3ab2b+3ab2-b3  Simplifying | 1+1=02  1+1=02 |

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**Reviewer Comments:**

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**Name and Signature Reviewer**