**Template for Essay Type Item**

**Subject: Mathematics**

**Domain: B- Algebra**

**Grade: 7**

**Unit: 7. Transformations**

**Type of Assessment: Formative**

**SLO: (M -07 -B – 18)** Introduction to Cartesian coordinate system.

**Type of Task:** Constructed Response

**Level of SLO:** Comprehension

**Task:** In Which quadrant life the following points A(0,0), B(1,0), D (3,2) E (-4,-5), F (-6,4), G (3,-2) ? **(05) Marks**

**Level of Item:** Comprehension

|  |  |  |
| --- | --- | --- |
| **Expected Response** | **Skill observed** | **Score** |
| Draw Cartesian plan take (0,0) as origin)  D. Lies in Quadrant – I  E. Lies in Quadrant – III  F. Lies in Quadrant – II  G. Lies in Quadrant – IV | Knowledge of Quadrant  first quadrant (+, +)  Second (-, +)  Third (-, -)  Fourth (+, -) | (01 Mark)  (01 Mark)  (01 Mark)  (01 Mark)  (01 Mark) |

**Name and Signature of Developer**

**Muhammad Usman Dar**

**Reviewer Comments: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

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**Template for Essay Type Item**

**Subject: Mathematics**

**Domain: B- Algebra**

**Grade: 7**

**Unit: 7. Transformations**

**Type of Assessment: Formative**

**SLO: (M -07 -B – 19)** Plot the graph of the linear equation ax + b=0 where a ≠ 0 and of linear equations in two variables. (Graph see in unit 8).

**Type of Task:** Constructed Response

**Level of SLO:** Comprehension

**Task:** Find the new coordinator of the point (3, 4) when origin is shifted to the point (1, 3).

**(02) Marks**

**Level of Item:** Comprehension

|  |  |  |
| --- | --- | --- |
| **Expected Response** | **Skill observed** | **Score** |
| A (3,4) (given) then new origin A (3-1, 4-3)  A (2,1) | Knowledge of Translating Origin  Skill of subtraction | (01 Mark)  (01 Mark) |

**Name and Signature of Developer**

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**Reviewer Comments: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

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**Template for Essay Type Item**

**Subject: Mathematics**

**Domain: B- Algebra**

**Grade: 7**

**Unit: 7. Transformations**

**Type of Assessment: Formative**

**SLO: (M -07 -B – 18)** Introduction to Cartesian coordinate system.

**Type of Task:** Constructed Response

**Level of SLO:** Comprehension

**Task:** Write coordinates of (x, y) under the translation 2unit left, 3unit down.  **(03) Marks**

**Level of Item:** Comprehension

|  |  |  |
| --- | --- | --- |
| **Expected Response** | **Skill observed** | **Score** |
| Given point (x, y)  Translation  2mint left = - 2  3mint down = - 3  So new coordinates will he  (x-2, y-3) | Knowledge of Cartesian Co-ordinate system  Knowledge of ordered pair  Knowledge of Translation | (01 Mark)  (01 Mark)  (01 Mark) |

**Name and Signature of Developer**

**Muhammad Usman Dar**

**Reviewer Comments: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**Name and Signature of Reviewer**