**Template for Multiple Choice Item**

**Subject: Mathematics**

**Domain: D- Geometry**

**Grade: 7**

**Unit: 10. Practical Geometry**

**Type of Assessment: Formative**

**SLO: (M-07-D-04)** Know that the perpendiculars distance from a point to a line is the shortest distance to the line.

**Type of Task:** Constructed Response

**Level of SLO:** Knowledge

**Task:** MCQ **(01) Mark**

**Level of Item:** Knowledge

|  |  |  |
| --- | --- | --- |
| **Expected Response** | **Skill observed** | **Score** |
| Choose the Correct OptionThe perpendicular distance from a point to a line is a) Longest distance b) Shortest distancec) Right angle d) None of above Answer: b) | Knowledge of the geometry. | (01 Mark) |

**Name and Signature of Developer**

**Muhammad Usman Dar**

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

**Name and Signature of Reviewer**

**Template for Essay Type Item**

**Subject: Mathematics**

**Domain: D- Geometry**

**Grade: 7**

**Unit: 10. Practical Geometry**

**Type of Assessment: Formative**

**SLO: (M -07 - D -10)** Calculate unknown angles in a triangle.

**Type of Task:** Constructed Response

**Level of SLO:** Comprehension

**Task:** Calculate unknown angles ABC. **(06) Marks**

i) LA= 50o, LB= 40o, LC= ?

 ii) LA = 60o, LB=47o,LC=?

**Level of Item:** Comprehension

|  |  |  |
| --- | --- | --- |
| **Expected Response** | **Skill observed** | **Score** |
| Sum of Three angles of a Triangle = 180oLA+LB+LC = 180o50o+40o +LC= 180oThis LC= 90o LA+LB+LC = 180o60o+47o +LC= 180oThis LC= 73o  | FormulaCalculationAnswer | 02 Marks03 Marks01 Mark |

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**Name and Signature of Reviewer**

**Template for Essay Type Item**

**Subject: Mathematics**

**Domain: D- Geometry**

**Grade: 7**

**Unit: 10. Practical Geometry**

**Type of Assessment: Formative**

**SLO: (M -07 -D -11)** Construct different types of triangles. (Equilateral, isosceles, scalene, and acute - angled, right - angled and obtuse -angled).

**Type of Task:** Constructed Response

**Level of SLO:** Comprehension

**Task:** Draw PQR with PQ=4cm, QR= 3.5cm, PR= 4cm. What type of triangle in this? **(05)**

**Level of Item:** Comprehension

|  |  |  |
| --- | --- | --- |
| **Expected Response** | **Skill observed** | **Score** |
| Steps of construction 1. Draw line segment QR= 3.5cm2. With Q as a center and radius 4cm, draw an arc3. With R as a centre and radius 4cm, draw another arc, cutting to previous arc at P.4. Join PQ & PRWhen PQR is the required isosceles triangle   | Skill of drawing line according to scale Skill of drawing arc according to scale Skill of drawing arc according to scale Identification of specific of Triangle | (01 Marks)(01 Marks)(01 Marks) (01 Marks)(01 Marks) |

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**Template for Essay Type Item**

**Subject: Mathematics**

**Domain: D- Practical Geometry**

**Grade: 7**

**Unit: 10. Practical Geometry**

**Type of Assessment: Formative**

**SLO: (M -07 -D -11)** Construct different types of triangles. (Equilateral, isosceles, scalene, and acute - angled, right - angled and obtuse -angled).

**Type of Task:** Constructed Response

**Level of SLO:** Comprehension

**Task:** Draw an ABC, such that AB=2.5cm, BC=6cm and AC=6.5cm. Which type of this triangle is this? **(05) Marks**

**Level of Item:** Comprehension

|  |  |  |
| --- | --- | --- |
| **Expected Response** | **Skill observed** | **Score** |
| Steps of construction 1. Draw a line segment BC= 6cm.2. With B as a center and radius 2.5cm draw an arc 3. Repeat above point by taking ‘c’ as center radius 6.5cm, draw an arc, cutting the previous arc at ‘A’4. Join AB and AC5. When ABC in required right angled Triangle. | Skill of drawing line according to scale Skill of drawing arc according to scale Skill of drawing arc according to scale Identification of specific of Triangle | (01 Marks)(01 Marks)(01 Marks) (01 Marks)(01 Marks) |

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**Template for Essay Type Item**

**Subject: Mathematics**

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**Unit: 10. Practical Geometry**

**Type of Assessment: Formative**

**SLO: (M -07 -D -11)** Construct different types of triangles. (Equilateral, isosceles, scalene, and acute - angled, right - angled and obtuse -angled).

**Type of Task:** Constructed Response

**Level of SLO:** Comprehension

**Task:** Draw a xyz in which xy = 4.5cm,yz=5cm , zx= 6cm which type of triangle is this?

**(05) Marks**

**Level of Item:** Comprehension

|  |  |  |
| --- | --- | --- |
| **Expected Response** | **Skill observed** | **Score** |
| Steps of construction 1. Draw a line segment yz= 5cm.2. With ‘z’ as center and radius 6cm draw an arc.3. Repeat above step by taking ‘y’ as center. Draw another are by taking radius 4.5cm cutting previous are at x.4. Join and xz.5. Then xyz is required scalene triangle.  | Skill of drawing line according to scaleSkill of Drawing are according to scale Skill of drawing are according to scaleSkill of Joining Identification of triangles. | (01 Marks)(01 Marks)(01 Marks) (01 Marks)(01 Marks) |

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