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| Template for preparation of Practice Items for Mathematical Literacy - Set – 1 Theme - 01 | | |
| Domain: Mathematical Literacy | Theme: 01,Bookingmovie show  Chapter : Co-ordinate Geometry | Class: IX  Expected time: 10 min  Total credit: 08 |
| Description of Item   |  |  | | --- | --- | | ✓ | Text | | ✓ | Image | | ✓ | Table | |  | Graph | |  | Map | |  | poem | | Learning Outcomes:  Students will be able to use of Coordinate Plane, Identify Coordinate Points and visualizing object horizontally and vertically. | |

Mathematical Literacy

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| --- | --- |
| FRAMEWORK | CHARACTERISTICS |
| Competency Cluster | Connections |
| Overarching idea | Change and relationships |
| Context | Scientific / Societal |
| Item format | MCQ, short response |
| Cognitive process | Interpret and employ |
| Proficiency Level | 6 |

Credit pattern:

Full Credit:02

Partial Credit: NA

Nil Credit:00

Description of answer key and Credits:

|  |
| --- |
| Q01. Full credit:: (d)  Nil credit: Other responses and missing  Q02. Full credit:: (a)  Nil credit: Other responses and missing  Q03. Full credit: (b)  Nil credit: Other responses and missing.  Q04. Full credit:Mandeep  Nil credit: Other responses and missing. |

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| Template for preparation of Practice Items for Mathematical Literacy - Set – 1  Theme - 02 | | |
| Domain: Mathematical Literacy | Theme: 02,High rise buildings  Chapter : Co-ordinate Geometry | Class: IX  Expected time: 10 min  Total credit: 08 |
| Description of Item   |  |  | | --- | --- | | ✓ | Text | | ✓ | Image | | ✓ | Table | | ✓ | Graph | |  | Map | |  | poem | | Learning Outcomes:  Students will be able to use of Coordinate Plane, Identify Coordinate Points and visualizing object horizontally and vertically.. | |

Mathematical Literacy

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| --- | --- |
| FRAMEWORK | CHARACTERISTICS |
| Competency Cluster | Connections |
| Overarching idea | Change and relationships |
| Context | Scientific / Societal |
| Item format | MCQ , open constructed response |
| Cognitive process | Interpret and employ |
| Proficiency Level | 6 |

Credit pattern:

Full Credit:02

Partial Credit: NA

Nil Credit:00

Description of answer key and Credits:

|  |
| --- |
| Q01. Full credit:Q1 Full credit :- due to population increase people are not able to find open space .  Nil credit: Other responses and missing  Q2. Full credit :- (d)  Nil credit: Other responses and missing  Q3.Full credit :- (d)  Nil credit: Other responses and missing  Q4. Full credit :- Yes ,191 flats  Nil credit: Other responses and missing |

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| Template for preparation of Practice Items for Mathematical Literacy - Set – 1  Theme - 03 | | |
| Domain: Mathematical Literacy | Theme: 03, 'Pariksha Pe Charcha-2020'  Chapter : Co-ordinate Geometry | Class: IX  Expected time: 5 min  Total credit: 08 |
| Description of Item   |  |  | | --- | --- | | ✓ | Text | | ✓ | Image | | ✓ | Table | | ✓ | Graph | |  | Map | |  | poem | | Learning Outcomes:  Students will be able to Use of Coordinate Plane, Identify Coordinate Points and visualizing object horizontally and vertically. | |

Mathematical Literacy

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| --- | --- |
| FRAMEWORK | CHARACTERISTICS |
| Competency Cluster | Connections |
| Overarching idea | Change and relationships |
| Context | Scientific / Societal |
| Item format | MCQ , Open constructed response |
| Cognitive process | Interpret and employ |
| Proficiency Level | 6 |

Credit pattern:

Full Credit:02

Partial Credit: 01

Nil Credit:00

Description of answer key and Credits:

|  |
| --- |
| Q01. Full credit:Students feel stress free , and get motivated that if PM can do the impossible, then why can’t I.  Nil credit: Other irrelevant responses and missingQ02. Full credit: :- Student gets motivated,  Parents become more supportive towards their wards,  Teacher are able to deal with students more technically,etc.  Partial credit: related responses  Nil credit: Missing or any other response.  Q03. Full credit: (c)  Nil credit: Other responses and missing.  Q04. Full credit: : (b)  Nil credit: Other responses and missing |

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| Template for preparation of Practice Items for Mathematical Literacy - Set – 1  Theme - 04 | | |
| Domain: Mathematical Literacy | Theme: 04, Mathematics in art  Chapter : Co-ordinate Geometry | Class: IX  Expected time: 10 min  Total credit: 08 |
| Description of Item   |  |  | | --- | --- | | ✓ | Text | | ✓ | Image | | ✓ | Table | | ✓ | Graph | |  | Map | |  | poem | | Learning Outcomes:  Students will be able to Use of Coordinate Plane, Identify Coordinate Points and visualizing object horizontally and vertically. | |

Mathematical Literacy

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| --- | --- |
| FRAMEWORK | CHARACTERISTICS |
| Competency Cluster | Connections |
| Overarching idea | Change and relationships |
| Context | Scientific / Societal |
| Item format | MCQ, Short response |
| Cognitive process | Interpret and employ |
| Proficiency Level | 6 |

Credit pattern:

Full Credit:02

Partial Credit: NA

Nil Credit:00

Description of answer key and Credits:

|  |
| --- |
| Q01. Full credit: : (a)  Nil credit: Other responses and missing  Q02. Full credit: (3,6) and (7,1)  Nil credit: Other responses and missing  Q03. Full credit: Rectangle  Nil credit: Other responses and missin  Q04. Full credit: Window of the picture, Triangle  Nil credit: Other responses and missing |

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| Template for preparation of Practice Items for Mathematical Literacy - Set – 1  Theme - 05 | | |
| Domain: Mathematical Literacy | Theme: 05, Examination room  Chapter : Co-ordinate Geometry | Class: IX  Expected time: 5 min  Total credit: 08 |
| Description of Item   |  |  | | --- | --- | | ✓ | Text | | ✓ | Image | | ✓ | Table | | ✓ | Graph | |  | Map | |  | poem | | Learning Outcomes:  Students will be able to Use of Coordinate Plane, Identify Coordinate Points and visualizing object horizontally and vertically. | |

Mathematical Literacy

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| --- | --- |
| FRAMEWORK | CHARACTERISTICS |
| Competency Cluster | Connections |
| Overarching idea | Change and relationships |
| Context | Scientific / Societal |
| Item format | MCQ, short response, open constructed response |
| Cognitive process | Interpret and employ |
| Proficiency Level | 6 |

Credit pattern:

Full Credit:02

Partial Credit: NA

Nil Credit:00

Description of answer key and Credits:

|  |
| --- |
| Q01. Full credit: (a)  Nil credit: Other responses and missing.  Q02. Full credit: :Science Olympiad and Cyber Olympiad.  Nil credit: Other responses and missing..  Q03 Full credit: (a) 3rd row ,3rd column with English student Roll number 23.  Nil credit: Other responses and missing.  Q04. Full credit: Because Mathematics, Science ,English and Cyber are Global Subjects.  for other related responses.  Nil credit: Other not related responses and missing |

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| Template for preparation of Practice Items for Mathematical Literacy - Set – 2  Theme - 01 | | |
| Domain: Mathematical Literacy | Theme: 01, AIR TRAFFIC CONTROL  Chapter : Co-ordinate Geometry | Class: IX  Expected time: 5 min  Total credit: 06 |
| Description of Item   |  |  | | --- | --- | | ✓ | Text | | ✓ | Image | | ✓ | Table | | ✓ | Graph | |  | Map | |  | poem | | Learning Outcomes:   1. To Plot points in coordinate plane 2. To find distance between 2 points using observation.   3. To find coordinates of a given point | |

Mathematical Literacy

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| --- | --- |
| FRAMEWORK | CHARACTERISTICS |
| Competency Cluster | Connections |
| Overarching idea | Change and relationships |
| Context | Scientific |
| Item format | MCQ |
| Cognitive process | Interpretation |
| Proficiency Level | 6 |

Credit pattern:

Full Credit:02

Partial Credit: NA

Nil Credit:00

Description of answer key and Credits:

|  |
| --- |
| Q01. Full credit: c) 3000km  Nil credit: Missing or any other response.  Q02. Full credit: b) (6,2500)  Nil credit: Missing or any other response.  Q03. Full credit: (b) 06:30 a.m.  Nil credit: Missing or any other response. |

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| Template for preparation of Practice Items for Mathematical Literacy - Set – 2  Theme – 02 | | |
| Domain: Mathematical Literacy | Theme: DIAMOND ROBBERY  Chapter : Co-ordinate Geometry | Class: IX  Expected time: 5 min  Total credit: 08 |
| Description of Item   |  |  | | --- | --- | | ✓ | Text | |  | Image | |  | Table | | ✓ | Graph | |  | Map | |  | poem | | Learning Outcomes:   1. To Plot points in coordinate plane 2. To find distance between 2 points using observation. 3. To find coordinates of a given point. | |

Mathematical Literacy

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| --- | --- |
| FRAMEWORK | CHARACTERISTICS |
| Competency Cluster | Connections |
| Overarching idea | Change and relationships |
| Context | Scientific / Societal |
| Item format | COMPLEX MCQ |
| Cognitive process | Evaluate |
| Proficiency Level | 6 |

Credit pattern:

Full Credit:02

Partial Credit: NA

Nil Credit:00

Description of answer key and Credits:

|  |
| --- |
| Q01. Full credit: b) M is nearer to diamond  Nil credit: Missing or any other response.  Q02. Full credit: b) (3,4)  Nil credit: Missing or any other response.  Q03. Full credit: c) 5  Nil credit: Missing or any other response.  Q04. Full credit: c) Shyam  Nil credit: Missing or any other response. |

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| Template for preparation of Practice Items for Mathematical Literacy - Set – 2  Theme – 03 | | |
| Domain: Mathematical Literacy | Theme: PAINTINGS  Chapter : Co-ordinate Geometry | Class: IX  Expected time: 10 min  Total credit: 10 |
| Description of Item   |  |  | | --- | --- | | ✓ | Text | |  | Image | | ✓ | Table | | ✓ | Graph | |  | Map | |  | poem | | Learning Outcomes:   1. To Plot points in coordinate plane 2. To find distance between 2 points using observation. 3. To find coordinates of a given point. | |

Mathematical Literacy

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| --- | --- |
| FRAMEWORK | CHARACTERISTICS |
| Competency Cluster | Connections |
| Overarching idea | Change and relationships |
| Context | Scientific / Societal |
| Item format | CLOSED CONSTRUCTED RESPONSE AND MCQ |
| Cognitive process | Interpret andevaluate |
| Proficiency Level | 4 |

Credit pattern:

Full Credit:02

Partial Credit: 01

Nil Credit:00

Description of answer key and Credits:

|  |
| --- |
| Q01. Full credit: (4.5,10)  Partial credit: for finding mid- point of upper side of frame  Nil credit: Missing or any other response.  Q02. Full credit: c) 3  Nil credit: Missing or any other response.  Q03. Full credit: a) 1  Nil credit: Missing or any other response.  Q04. Full credit: d) 5  Nil credit: Missing or any other response.  Q05: Full credit :3 units  Nil credit : Missing or any other response. |

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| Template for preparation of Practice Items for Mathematical Literacy - Set – 2  Theme – 04 | | |
| Domain: Mathematical Literacy | Theme: TEMPERATURE  Chapter : Co-ordinate Geometry | Class: IX  Expected time: 5 min  Total credit: 08 |
| Description of Item   |  |  | | --- | --- | | ✓ | Text | |  | Image | | ✓ | Table | | ✓ | Graph | |  | Map | |  | poem | | Learning Outcomes:  1. To plot points in coordinate plane  2. To find distance between 2 points using observation.  3. To find coordinates of a given point. | |

Mathematical Literacy

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| --- | --- |
| FRAMEWORK | CHARACTERISTICS |
| Competency Cluster | Connections |
| Overarching idea | Change and relationships |
| Context | Scientific / Societal |
| Item format | MCQ , Short response |
| Cognitive process | Interpret and employ |
| Proficiency Level | 4 |

Credit pattern:

Full Credit:02

Partial Credit: 01

Nil Credit:00

Description of answer key and Credits:

|  |
| --- |
| Q01. Full credit: d) IV  Nil credit: Missing or any other response.  Q02. Full credit: c) 6 degrees celsius  Nil credit: Missing or any other response.  Q03. Full credit: c) 9m  Nil credit: Missing or any other response.  Q04. Full credit: global warming ,melting of ice  Partial credit : any other drawbacks of increase in temperature  Nil credit: Missing or any other response. |

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| Template for preparation of Practice Items for Mathematical Literacy - Set – 2  Theme – 05 | | |
| Domain: Mathematical Literacy | Theme: TRAFFIC PROBLEM  Chapter : Co-ordinate Geometry | Class: IX  Expected time: 7 min  Total credit: 08 |
| Description of Item   |  |  | | --- | --- | | ✓ | Text | |  | Image | |  | Table | | ✓ | Graph | |  | Map | |  | poem | | Learning Outcomes:  1. To plot points in coordinate plane  2. To find distance between 2 points using observation.  3. To find coordinates of a given point. | |

Mathematical Literacy

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| --- | --- |
| FRAMEWORK | CHARACTERISTICS |
| Competency Cluster | Connections |
| Overarching idea | Change and relationships |
| Context | Scientific / Societal |
| Item format | Short response item,open constructed response, MCQ |
| Cognitive process | Formulate |
| Proficiency Level | 5 |

Credit pattern:

Full Credit:02

Partial Credit: 01

Nil Credit:00

Description of answer key and Credits:

|  |
| --- |
| Q01. Full credit: c) (-2,21)  Nil credit: Missing or any other response.  Q02. Full credit: 22 min  Nil credit: Missing or any other response.  Q03. Full credit: b) 8 min  Nil credit: Missing or any other response.  Q04. Full credit: increase in commute time on road will increase the traffic on roads and increase in pollution level.  Partial credit : it will cause health problems due to pollution.  Nil credit: Missing or any other response. |

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| Template for preparation of Practice Items for Mathematics Literacy - Set – 3  Theme - 01 | | |
| Domain: Mathematical Literacy | Theme: 01, PROJECT TIGER  Chapter : Co-ordinate Geometry | Class: IX  Expected time: 4 min  Total credit: 08 |
| Description of Item   |  |  | | --- | --- | | ✓ | Text | | ✓ | Image | | ✓ | Table | | ✓ | Graph | |  | Map | |  | poem | | Learning Outcomes:  Students will be able to Use of Coordinate Plane, Identify Coordinate Pointsand Calculate distance between points opposite to coordinate axis. | |

Mathematical Literacy

|  |  |
| --- | --- |
| FRAMEWORK | CHARACTERISTICS |
| Competency Cluster | Connections |
| Overarching idea | Change and relationships |
| Context | Scientific / Societal |
| Item format | MCQ ,short response |
| Cognitive process | Interpret and employ |
| Proficiency Level | 6 |

Credit pattern:

Full Credit:02

Partial Credit:NA

Nil Credit:00

Description of answer key and Credits:

|  |
| --- |
| Q01. Full credit: b) (-6,-4)  Nil credit: Missing or any other response.  Q02. Full credit: c) (3,0)  Nil credit: Missing or any other response.  Q03. Full credit: Point C, Group 1  Nil credit: Missing or any other response.  Q04. Full credit: a) (6, 2)  Nil credit: Missing or any other response. |

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| Template for preparation of Practice Items for Mathematics Literacy - Set – 3  Theme - 02 | | |
| Domain: Mathematical Literacy | Theme: 02, PLOG RUN  Chapter : Co-ordinate Geometry | Class: IX  Expected time: 4 min  Total credit: 08 |
| Description of Item   |  |  | | --- | --- | | ✓ | Text | | ✓ | Image | | ✓ | Table | | ✓ | Graph | |  | Map | |  | poem | | Learning Outcomes:  Students will be able to Use of Coordinate Plane, Identify Coordinate Pointsand Calculate distance between points opposite to coordinate axis. | |

Mathematical Literacy

|  |  |
| --- | --- |
| FRAMEWORK | CHARACTERISTICS |
| Competency Cluster | Connections |
| Overarching idea | Change and relationships |
| Context | Scientific / Societal |
| Item format | Short response, MCQ |
| Cognitive process | Interpret and employ |
| Proficiency Level | 4 |

Credit pattern:

Full Credit:02

Partial Credit:NA

Nil Credit:00

Description of answer key and Credits:

|  |
| --- |
| Q01. Full credit: b) B(5,1) F(4,5)  Nil credit: Missing or any other response.  Q02. Full credit: 1350 m or 1.35km  Nil credit: Missing or any other response.  Q03. Full credit: (-5, -4)  Nil credit: Missing or any other response.  Q04. Full credit: 10500m or 10.5km  Nil credit: Missing or any other response. |

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| Template for preparation of Practice Items for Mathematics Literacy - Set – 3  Theme - 03 | | |
| Domain: Mathematical Literacy | Theme: 03, PAINTING  Chapter : Co-ordinate Geometry | Class: IX  Expected time: 4 min  Total credit: 08 |
| Description of Item   |  |  | | --- | --- | | ✓ | Text | | ✓ | Image | | ✓ | Table | | ✓ | Graph | |  | Map | |  | poem | | Learning Outcomes:  Students will be able to Use of Coordinate Plane, Identify Coordinate Points and Calculate distance between points opposite to coordinate axis. | |

Mathematical Literacy

|  |  |
| --- | --- |
| FRAMEWORK | CHARACTERISTICS |
| Competency Cluster | Connections |
| Overarching idea | Change and relationships |
| Context | Scientific |
| Item format | Short response |
| Cognitive process | Interpret and employ |
| Proficiency Level | 6 |

Credit pattern:

Full Credit:02

Partial Credit:NA

Nil Credit:00

Description of answer key and Credits:

|  |
| --- |
| Q01. Full credit: (4, 8)  Nil credit: Missing or any other response.  Q02. Full credit: (7, 2)  Nil credit: Missing or any other response.  Q03. Full credit: 36 sq. inch  Nil credit: Missing or any other response.  Q04. Full credit: (13, 8) & (13, 2)  Nil credit: Missing or any other response. |

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| Template for preparation of Practice Items for Mathematics Literacy - Set – 3  Theme -4 | | |
| Domain: Mathematical Literacy | Theme: 04, FARMER  Chapter : Co-ordinate Geometry | Class: IX  Expected time:5 min  Total credit: 08 |
| Description of Item   |  |  | | --- | --- | | ✓ | Text | | ✓ | Image | | ✓ | Table | | ✓ | Graph | |  | Map | |  | poem | | Learning Outcomes:  Students will be able to Use of Coordinate Plane, Identify Coordinate Pointsand Calculate distance between points opposite to coordinate axis. | |

Mathematical Literacy

|  |  |
| --- | --- |
| FRAMEWORK | CHARACTERISTICS |
| Competency Cluster | Connections |
| Overarching idea | Change and relationships |
| Context | Scientific / Societal |
| Item format | Short response |
| Cognitive process | Interpret and employ |
| Proficiency Level | 6 |

Credit pattern:

Full Credit:02

Partial Credit:NA

Nil Credit:00

Description of answer key and Credits:

|  |
| --- |
| Q01. Full credit: A (-1, 3), B (-1, -1), F (-7, -1), E (-7, 3)  Nil credit: Missing or any other response.  Q02. Full credit: (1, 1)  Nil credit: Missing or any other response.  Q03. Full credit: Area of field = 3750m2 Yield of Wheat = 1264.125 kg  Nil credit: Missing or any other response.  Q04. Full credit: Earning = 23259.90 Rupees  Nil credit: Missing or any other response. |

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Template for preparation of Practice Items for Mathematics Literacy - Set – 3

Theme -5

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| --- | --- | --- |
| Domain: Mathematical Literacy | Theme: 05, PIZZA DELIVERY  Chapter : Co-ordinate Geometry | Class: IX  Expected time: 5 min  Total credit: 08 |
| Description of Item   |  |  | | --- | --- | | ✓ | Text | | ✓ | Image | | ✓ | Table | | ✓ | Graph | |  | Map | |  | poem | | Learning Outcomes:  Students will be able to Use of Coordinate Plane, Identify Coordinate Pointsand Calculate distance between points opposite to coordinate axis. | |

Mathematical Literacy

|  |  |
| --- | --- |
| FRAMEWORK | CHARACTERISTICS |
| Competency Cluster | Connections |
| Overarching idea | Change and relationships |
| Context | Scientific |
| Item format | Short response |
| Cognitive process | Interpret and employ |
| Proficiency Level | 6 |

Credit pattern:

Full Credit:02

Partial Credit: NA

Nil Credit: 00

Description of answer key and Credits:

|  |
| --- |
| Q01. Full credit: (-3, -3)  Nil credit: Missing or any other response.  Q02. Full credit: 3000m or 3 km  Nil credit: Missing or any other response.  Q03. Full credit: Between 1.59 pm & 2.00pm  Nil credit: Missing or any other response.  Q04. Full credit: 12 km  Nil credit: Missing or any other response. |

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