**Math Grade 6**

**Template for Essay Type Item**

**Subject: Mathematics**

**Domain:** E- Statistics and Probability

**Grade: VI**

**Unit 10:** Data Handling and Probability

**Type of Assessment: Formative**

[SLO: M-06-E-01] Draw, read and interpret horizontal and vertical multiple bar graphs and pie charts. (Including real world problems)

Type of Task: Extended response

Level of SLO: Comprehension

Amir

Nazir

Hamza

Match 1

Match 2

20

40

60

80

Task: Look at the figure:

1. What is name of this graph?
2. Who score maximum and how much?
3. What is the total score gained by

Amir?

1. Calculate the total score of match 1.
2. Who score minimum score and how

much?

Maximum Marks: 5

Level of Item: Comprehension

**Expected Response:** **Skill Observed Score**

1. Horizontal multiple bar graph
2. Hamza, 80 + 50 = 130 scores
3. 60 + 40 = 100
4. 60 + 20 + 50 = 130
5. 20 + 60 = 80

One mark for one part 05

**Name and Signature of Developer**

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**Name and Signature of Reviewer**

**Template for Essay Type Item**

**Subject: Mathematics**

**Domain:** E- Statistics and Probability

**Grade: VI**

**Unit 10:** Data Handling and Probability

**Type of Assessment: Formative**

[SLO: M-06-E-01] Draw, read and interpret horizontal and vertical multiple bar graphs and pie charts. (Including real world problems)

Type of Task: Extended response

Level of SLO: Comprehension

Task: Draw pie chart for the following data.

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Na me of Student | Ayesha | Asma | Nazia | Lubna | Shiza |
| Marks obtained | 35 | 30 | 20 | 15 | 20 |

Maximum Marks: 5

Level of Item: Comprehension

**Expected Response:** **Skill Observed Score**

Total marks = 35 + 30 + 20 + 15 + 20 = 120

Angle for Ayesha = 

Angle for Asma = 

Angle for Nazia = 

Angle for Lubna = 

Angle for Shiza = 

One mark for each calculation 05

105o

90o

60o

Ayesha

45o

60o

Nazia

Asma

Shiza

Lubna

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**Name and Signature of Reviewer**

**Template for Multiple Choice Item**

**Subject: Mathematics**

**Domain:** E- Statistics and Probability

**Grade: VI**

**Unit 10:** Data Handling and Probability

**Type of Assessment: Formative**

[SLO: M -06 - E-02] Identify and organize different types of data (i.e., discrete, continuous, grouped and ungrouped).

Type of Task: MCQ

Level of SLO: Knowledge

Task: Set of numerical figures obtained from any source or field is called:

Maximum Marks (01)

**Options**

**A) arithmetic mean**

**B) data**

**C) median**

**D) mode**

**Answer: B**

**Reason for Choosing Distracter:** Distracters are not related with correct answer.

**Name and Signature of Developer**

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**Name and Signature of Reviewer**

**Template for Multiple Choice Item**

**Subject: Mathematics**

**Domain:** E- Statistics and Probability

**Grade: VI**

**Unit 10:** Data Handling and Probability

**Type of Assessment: Formative**

[SLO: M -06 - E-02] Identify and organize different types of data (i.e., discrete, continuous, grouped and ungrouped).

Type of Task: MCQ

Level of SLO: Knowledge

Task: What is type of data given below?

|  |  |
| --- | --- |
| Class Intervals | Frequency |
| 1 - 5 | 4 |
| 6 - 10 | 6 |
| 11 - 15 | 11 |
| 16 - 20 | 9 |

Maximum Marks (01)

**Options**

**A) primary data**

**B) raw data**

**C) grouped data**

**D) ungrouped data**

**Answer: C**

**Reason for Choosing Distracter:** Distracters show various types of data.

**Name and Signature of Developer**

1. Dr Khalid Mahmood
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**Name and Signature of Reviewer**

**Template for Essay Type Item**

**Subject: Mathematics**

**Domain:** E- Statistics and Probability

**Grade: VI**

**Unit 10:** Data Handling and Probability

**Type of Assessment: Formative**

[SLO: M -06 - E -03] Calculate the mean, median and mode for ungrouped data and solve related real-world problems.

Type of Task: Extended response

Level of SLO: Application

Task: The following data shows how many times Mr. Shakeel drinks water in a day during eight days:

5, 7, 6, 5, 8, 7, 5, 5

Calculate mean, median and mode of the data.

Maximum Marks: 5

Level of Item: Application

**Expected Response:** **Skill Observed Score**

Data: *x* = 5, 7, 6, 5, 8, 7, 5, 5

Data arranged in ascending order:

5, 5, 5, 5, 6, 7, 7, 8

Number of terms = n = 8

Arithmetic mean =  = 

= 

Median = mean of middle terms arranged in ascending order = 

Arrangement of data 01

Formulas for mean 01

Calculation of mean 01

Calculation of median 01

Calculation of mode 01

Mode = most repeated value in the data = 5

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**Name and Signature of Reviewer**

**Template for Multiple Choice Item**

**Subject: Mathematics**

**Domain:** E- Statistics and Probability

**Grade: VI**

**Unit 10:** Data Handling and Probability

**Type of Assessment: Formative**

[SLO: M-06-E-04]

i-Explain experiments, outcomes, sample space, events, equally likely events and probability of a single event.

ii-Differentiate the outcomes that are equally likely and not equally likely to occur. (Including real-world word problems).

Type of Task: MCQ

Level of SLO: Knowledge

Task: What is the probability of an equally likely event?

Maximum Marks (01)

**Options**

**A) zero**

**B) equal**

**C) unequal**

**D) one**

**Answer: B**

**Reason for Choosing Distracter:** Distracters show various types of probabilities of events.

**Name and Signature of Developer**

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**Name and Signature of Reviewer**

**Template for Multiple Choice Item**

**Subject: Mathematics**

**Domain:** E- Statistics and Probability

**Grade: VI**

**Unit 10:** Data Handling and Probability

**Type of Assessment: Formative**

[SLO: M-06-E-04]

i-Explain experiments, outcomes, sample space, events, equally likely events and probability of a single event.

ii-Differentiate the outcomes that are equally likely and not equally likely to occur. (Including real-world word problems).

Type of Task: MCQ

Level of SLO: Comprehension

Task: What is the probability of getting prime number when a die is rolled?

Maximum Marks (01)

**Options**

**A)** 

**B)** 

**C)** 

**D)** 

**Answer: A**

**Reason for Choosing Distracter:** Distracters show various types of probabilities while rolling a die.

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**Name and Signature of Reviewer**

**Template for Multiple Choice Item**

**Subject: Mathematics**

**Domain:** E- Statistics and Probability

**Grade: VI**

**Unit 10:** Data Handling and Probability

**Type of Assessment: Formative**

[SLO: M-06-E-04]

i-Explain experiments, outcomes, sample space, events, equally likely events and probability of a single event.

ii-Differentiate the outcomes that are equally likely and not equally likely to occur. (Including real-world word problems).

Type of Task: MCQ

Level of SLO: Application

Task: In a hilly area, probability of rain is  in 60 days. Find number of days when the rain is expected during 60 days.

Maximum Marks (01)

**Options**

**A)** 14

**B)** 30

**C)**  24

**D)** 36

**Answer: D**

**Reason for Choosing Distracter:** Distracters show number of days within the limit of 60 days.

**Name and Signature of Developer**

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**Name and Signature of Reviewer**

**Template for Essay Type Item**

**Subject: Mathematics**

**Domain:** E- Statistics and Probability

**Grade: VI**

**Unit 10:** Data Handling and Probability

**Type of Assessment: Summative**

[SLO: M-06-E-04] i-Explain experiments, outcomes, sample space, events, equally likely events and probability of a single event.

ii-Differentiate the outcomes that are equally likely and not equally likely to occur.

Type of Task: Extended response

Level of SLO: Application

Task: Given the sample space: S = {1, 2, 3, 4, …, 30}

1. Find the probability of getting prime numbers.
2. Prove that probability of getting even numbers is equal to that of odd numbers.
3. Find the probability of getting composite numbers.
4. What is the probability of getting numbers divisible by 5?

Maximum Marks: 5

Level of Item: Application

**Expected Response:** **Skill Observed Score**

S = {1, 2, 3, 4, …, 30}

n (S) = 30, n(prime numbers) = 10

Probability of getting prime number = 

n(even numbers) = n(odd numbers) =15

 Probability of getting even number = 

and probability of getting odd number = 

n (composite numbers) = 19

Probability of getting composite numbers = 

Writing sample space 01

1 mark for 1 part 04

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