

# Test Jot Series

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|               |                                  |                                                                                   |                |                 |
|---------------|----------------------------------|-----------------------------------------------------------------------------------|----------------|-----------------|
| Student Name: |                                  |  | Class:         | 9th             |
| Paper Type:   | Test Series Chemistry Chapter 12 |                                                                                   | Subject:       | Chemistry (SNC) |
| Paper Time:   | 45                               |                                                                                   | Maximum Marks: | 30              |

Q1. Choose the correct option. (6X1=6)

1. Which symbol is used for kilogram in SI units?

|       |       |         |        |
|-------|-------|---------|--------|
| (A) K | (B) k | (C) Kgm | (D) Kg |
|-------|-------|---------|--------|

2. Standard unit of time:

|              |           |            |                   |
|--------------|-----------|------------|-------------------|
| (A) Kilogram | (B) Meter | (C) Second | (D) $\text{cm}^3$ |
|--------------|-----------|------------|-------------------|

3. Prefix of Nano:

|               |               |               |               |
|---------------|---------------|---------------|---------------|
| (A) $10^{-6}$ | (B) $10^{-7}$ | (C) $10^{-8}$ | (D) $10^{-9}$ |
|---------------|---------------|---------------|---------------|

4. Which technique is used to reduce variability in a process?

|               |                        |                              |                      |
|---------------|------------------------|------------------------------|----------------------|
| (A) Six sigma | (B) Lean manufacturing | (C) Total quality management | (D) All of the above |
|---------------|------------------------|------------------------------|----------------------|

5. Which of the following is a tool used to manage accuracy?

|                    |                       |                              |                      |
|--------------------|-----------------------|------------------------------|----------------------|
| (A) Control charts | (B) Fishbone diagrams | (C) Calibration certificates | (D) All of the above |
|--------------------|-----------------------|------------------------------|----------------------|

6. What is the term for the consistency of measurements?

|              |               |                 |              |
|--------------|---------------|-----------------|--------------|
| (A) Accuracy | (B) Precision | (C) Reliability | (D) Validity |
|--------------|---------------|-----------------|--------------|

Q2. Write down short answers of following questions. (7X2=14)

|                                                |                                                            |
|------------------------------------------------|------------------------------------------------------------|
| [i] Standard unit of length? and its symbol?   | [ii] What are derived units?                               |
| [iii] Write formula to convert C-to K?         | [iv] What is reason behind a random error?                 |
| [v] Does systematic error affect the accuracy? | [vi] Difference between random error and systematic error? |
| [vii] What is accuracy? Give example?          |                                                            |

Q3. Write detailed answers of the following questions.(Answer any 2) (2X5=10)

|                                                                                               |
|-----------------------------------------------------------------------------------------------|
| 1. Elaborate the importance of using SI units in space exploration. (Investigative Questions) |
| 2. Describe the importance of SI units in chemistry?                                          |
| 3. Explain the concept of base and derived units in the SI system?                            |