

# Latest Version: 13.0

## Question: 1

Which of the following statements best applies to the coordinate measuring machine?

Response:

- A. All of the above
- B. The Y axis is horizontal from front to back
- C. It can be used to measure roundness and radi
- D. The Z axis is vertical

**Answer: A**

## Question: 2

Evidence of which of the following is normally required and can be as simple as retention of certificates and reports of calibration, or as complex as reproduction of the analyses demonstrating the uncertainties claimed for the measurements?

Response:

- A. Reproducibility
- B. Traceability
- C. Linearity
- D. Inspection

**Answer: B**

## Question: 3

The area of a rectangle is 62.92 cm<sup>2</sup>. If two of its sides measure 5.2 cm, what is the length of the other two sides?

Response:

- A. 26.3 cm
- B. 2.3 cm
- C. 12.1 cm
- D. 52.52 cm

**Answer: C**

### Question: 4

A rectangle has dimensions  $3 \frac{5}{8}$  inches and  $6 \frac{3}{4}$  inches. Find the area of the rectangle to the nearest 0.1 in <sup>2</sup>.

Response:

- A. 24.5 in <sup>2</sup>
- B. 25.7 in <sup>2</sup>
- C. 25.2 in <sup>2</sup>
- D. 22.8 in <sup>2</sup>

**Answer: A**

### Question: 5

Solve for x.  $(8 - x) / 3 = 21$

Response:

- A. -55
- B. 55
- C. -71
- D. 71

**Answer: A**

### Question: 6

Which of the following is a component of an attribute (data) sampling plan?

Response:

- A. Unit is inspected by its proximity to specifications
- B. Items are classified as Percent Defective
- C. Inspection method is more sophisticated
- D. Smaller sample size can be utilized

**Answer: B**

### Question: 7

You are taking an inventory of dial indicators in an inspection shop and notice one that has a yellow face. What does this tell you?

Response:

- A. The indicator has a revolution counter
- B. It is a balanced indicator
- C. It has a resolution of .0001" or greater
- D. The readings will be in the metric system

**Answer: D**

### Question: 8

Seriousness classifications for quality characteristics and defects are derived from

Response:

- A. specifications and failure evidence
- B. maintenance and machine downtime
- C. inspection error
- D. equipment and processes

**Answer: A**

### Question: 9

A rectangle has dimensions  $35/8$  inches and  $63/4$  inches. Find the perimeter of the rectangle.

Response:

- A.  $28 \frac{3}{8}$
- B.  $21 \frac{7}{8}$
- C.  $20 \frac{3}{4}$
- D.  $99 \frac{1}{4}$

**Answer: C**

### Question: 10

The sum of  $45.29 + 8.4$  has how many significant digits?

Response:

- A. 2
- B. 3

- C. 4
- D. 1

**Answer: B**

### Question: 11

Often inspection stations do not require full time presence. A usual practice is to collect such stations into a \_\_\_\_\_ so designed that it will occupy the full time of one person.

Response:

- A. Spot check
- B. 100% inspection
- C. Round robin
- D. Patrol beat

**Answer: D**

### Question: 12

Which of the following is NOT necessary for team effectiveness?

Response:

- A. The team is accountable for specific measurable outcomes.
- B. Company management directly participates as a team member.
- C. A process exists for establishing goals and objectives.
- D. The team's purpose is clearly understood and supported by all members.

**Answer: B**

### Question: 13

When surface plate is used with a v-block, dimensional measurements should be:

Response:

- A. Both Based on whether the plates are made with cast iron or granite plates and Taken from the v-block up
- B. Based on whether the plates are made with cast iron or granite plates
- C. Taken from the plate up
- D. Taken from the v-block up

**Answer: C**

### Question: 14

The two mandatory criteria for software quality are:  
Response:

- A. Reliability and Stability
- B. Reliability and Modifiability
- C. Stability and Compliance
- D. Compliance and Modifiability

**Answer: D**

### Question: 15

On a control chart, what pattern occurs when there are eight points in a row falling on both sides of the central line and none of the points fall within the  $-1\sigma$  and the  $+1\sigma$  limits?  
Response:

- A. A trend
- B. Out of control point
- C. Run
- D. Mixture

**Answer: D**

### Question: 16

Team progression begins with which stage when members cautiously explore boundaries of acceptable group behavior?  
Response:

- A. Norming
- B. Storming
- C. Forming
- D. Performing

**Answer: C**

### Question: 17

In which of the following is the presence of interference bands between the flat and the surface being tested, an indication that the surface is not parallel with the surface of the flat?

Response:

- A. Oscilloscope
- B. Optical flats
- C. Vernier height gage
- D. Gage block

**Answer: B**

### Question: 18

Which of the following measures the preciseness of observations taken under the same conditions, which is achieved by computing the variance of such observations?

Response:

- A. Reproducibility
- B. Linearity
- C. Repeatability
- D. Stability

**Answer: C**

### Question: 19

What is the primary purpose of audit working papers?

Response:

- A. Evidence of internal controls
- B. Subsequent audits of the same area
- C. Supporting document for audit report
- D. Audit personnel evaluation

**Answer: C**

### Question: 20

The different measures for dispersion include which of the following?  
Response:

- A. Mode, Range, Variance, Standard deviation.
- B. Range, Standard deviation and mode
- C. Range, Variance, Standard deviation.
- D. Variance, Standard deviation and mode.

**Answer: C**