

**REVIEW QUESTIONS**

17.1) Which of the following is the MMC of a hole with a dimension of  $\varnothing 0.625 \pm 0.005$  in.?

- a) 0.625 in.
- b) 0.630 in.
- c) 0.620 in.
- d) 0.615 in.

17.2) The symbols used in GD&T to provide specific controls related to the form, orientation, or outline of features; the relationship of features to an axis; or the location of features are called \_\_\_\_\_ symbols.

- a) geometric characteristic
- b) feature control frame
- c) datum feature
- d) material condition

17.3) The symbols used in the feature control frame to modify the geometric tolerance other than the implied condition are \_\_\_\_\_.

- a) MMC and RFS
- b) LMC and RFS
- c) MMC and GDT
- d) MMC and LMC

17.4) A(n) \_\_\_\_\_ dimension is a theoretically perfect dimension.

- a) untoleranced
- b) specified
- c) basic
- d) exact

17.5) \_\_\_\_\_ is required at MMC with surface straightness.

- a) Perfect form
- b) Extreme form variation
- c) Perfect variation
- d) Perfect size

17.6) What is the size of the geometric tolerance zone for a shaft with a size dimension of  $\varnothing 0.625 \pm 0.005$  in. and surface straightness of 0.001 in. produced at  $\varnothing 0.630$  in.?

- a) 0.000 in.
- b) 0.001 in.
- c) 0.005 in.
- d) 0.010 in.

17.7) \_\_\_\_\_ is the condition of a surface where all of the elements are in one plane.

- a) Flatness
- b) Profile
- c) Straightness
- d) Perfect form

17.8) \_\_\_\_\_ is controlled by a single cross-sectional tolerance zone defined by two concentric circles.

- a) Circularity
- b) Cylindricity
- c) Profile all around
- d) Profile of a line

17.9) The \_\_\_\_\_ tolerance zone is two parallel planes that are perfectly  $90^\circ$  to a datum.

- a) angularity
- b) perpendicularity
- c) parallelism
- d) runout

17.10) \_\_\_\_\_ provides combined control of circularity, straightness, coaxiality, angularity, taper, and profile when applied to surfaces around a datum axis.

- a) Circular runout
- b) Total runout
- c) Profile of a line
- d) Profile of a surface