Multiple Choice Questions (MCQs) focuses on “Tolerances”.

1. What are the functional dimensions?

a) Have to be machined and fit with other mating components

b) Which have no effect on the performance of quality

c) Need not to be machined to an accuracy of the high degree

d) Function is more important than accuracy

2. Why tolerances are given to the parts?

a) Because it’s impossible to make perfect settings

b) To reduce weight of the component

c) To reduce cost of the assembly

d) To reduce amount of material used

3. What is bilateral tolerance?

a) Total tolerance is in 1 direction only

b) Total tolerance is in both the directions

c) May or may not be in one direction

d) Tolerance provided all over the component body

4. Which type of tolerance provided in drilling mostly?

a) Bilateral

b) Unilateral

c) Trilateral

d) Compound

5. What is mean clearance?

a) Maximum size of hole minus maximum size of shaft

b) Minimum size of hole minus minimum size of shaft

c) Mean size of hole minus mean size of shaft

d) Average of both size of shaft and hole

6. Which of the following is incorrect about tolerances?

a) Too loose tolerance results in less cost

b) Tolerance is a compromise between accuracy and ability

c) Too tight tolerance may result in excessive cost

d) Fit between mating components is decided by functional requirements

7. Quality control charts doesn’t depend on which factor?

a) Normal distribution

b) Random sampling

c) Independence between samples

d) Binomial distribution

8. Which of the following option is true for given statements?

Statement 1: Bilateral tolerances are used in mass production techniques.

Statement 2: The basic size should be equal to upper and lower limits.

a) T, T

b) F, F

c) T, F

d) F, T

9. If a clearance fit is present between shaft and hole, what is the tolerance on shaft or hole for a complete interchangeable approach?

a) ½ of maximum clearance – ½ of minimum clearance

b) ¼ of maximum clearance – ¼ of minimum clearance

c) Maximum clearance – minimum clearance

d) ¾ of maximum clearance – ¾ of minimum clearance

10. What are the main considerations for deciding the limits of a particular part?

a) Functional requirement

b) Economics and interchangeability

c) Interchangeability and functional requirement

d) Interchangeability, functional requirement and economics