

1). What is the difference between the maximum limit of size and the minimum limit of size?

- (A) Tolerance
- (B) Basic size
- (C) Limits of size
- (D) Upper deviation

Correct Answer: A

2). Why zinc alloy is used for coating of roofing sheets?

- (A) Due to low density
- (B) Due to thermal expansion
- (C) Due to corrosion resistant
- (D) Due to heat conduction

Correct Answer: C

3). Which is the purest form of an iron?

- (A) Grey cast iron
- (B) Wrought iron
- (C) Pig iron
- (D) Cast iron

Correct Answer: B

4). Which alloy is used for coating on steel sheets of food containers?

- (A) Tin
- (B) Lead
- (C) Copper
- (D) Bronze

Correct Answer: A

5). What is the maximum clearance value if hole size is

$$20 \begin{matrix} +0.021 \\ -0.000 \end{matrix} \text{ and shaft size is } 20 \begin{matrix} -0.007 \\ -0.020 \end{matrix} ?$$

- (A) 0.020 mm
- (B) 0.007 mm
- (C) 0.028 mm
- (D) 0.041 mm

Correct Answer: D

6). Why lime stone is added as flux to the ore in the blast furnace?

- (A) To form molten slag
- (B) To supply oxygen
- (C) To burn the carbon in coke
- (D) To increase the melting point of ore

Correct Answer: A

7). Which steel is used for making cold chisels?

- (A) Dead mild steel
- (B) Medium carbon steel
- (C) High carbon steel
- (D) Mild steel

Correct Answer: C

8). What is the expression for 30H7/g6?

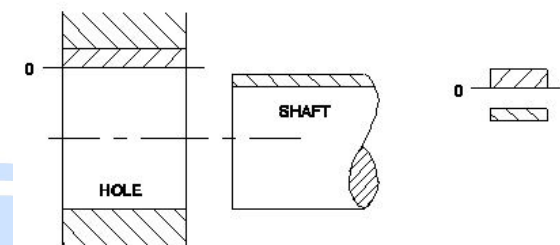
- (A) Fit
- (B) Limits

(C) Deviation

(D) Tolerance

Correct Answer: A

9). What is the name of the fit shown in the figure?



- (A) Transition fit
- (B) Clearance fit
- (C) Shrinkage fit
- (D) Interference fit

Correct Answer: B

10). When can interchangeability be used effectively in manufacturing industry?

- (A) For repairing and reworking
- (B) For single piece production
- (C) For batch production
- (D) For selective assembly

Correct Answer: C

11). What is the algebraic difference between the actual size and its corresponding basic size?

- (A) Deviation
- (B) Tolerance
- (C) Actual deviation
- (D) Upper deviation

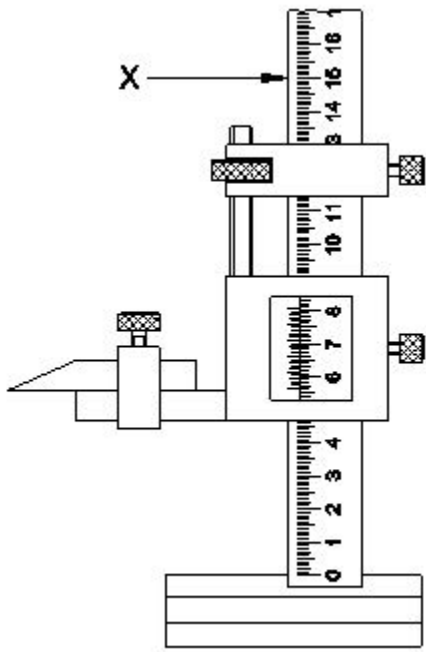
Correct Answer: C

12). Which ore extracts zinc?

- (A) Bauxite
- (B) Galena
- (C) Calamine
- (D) Cassiterite

Correct Answer: C

13). What is the name of the part marked as 'x' shown in the figure?



- (A) Base
- (B) Beam
- (C) Main scale
- (D) Vernier scale

Correct Answer: B

14). What is the upper limit of the component size?

$$20 \begin{matrix} + .008 \\ - .005 \end{matrix}$$

- (A) 0.005
- (B) 0.008
- (C) 9.995
- (D) 0.008

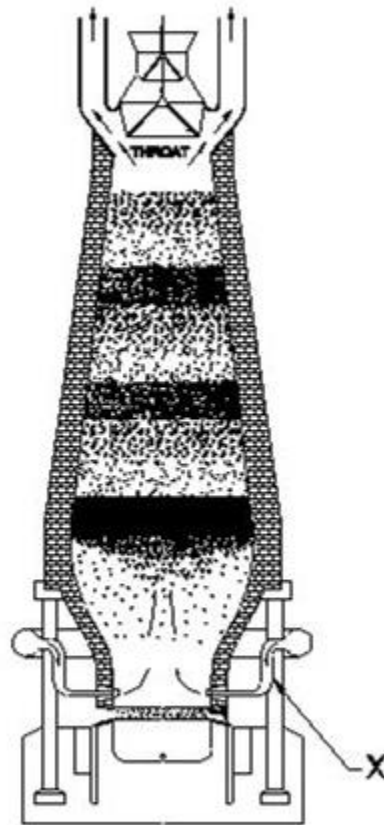
Correct Answer: D

15). What is the least count of Vernier height gauge if 49 main scale divisions is equally divided into 50 vernier scale division and 1msd=1mm?

- (A) 0.01 mm
- (B) 0.001 mm
- (C) 0.02 mm
- (D) 0.002 mm

Correct Answer: C

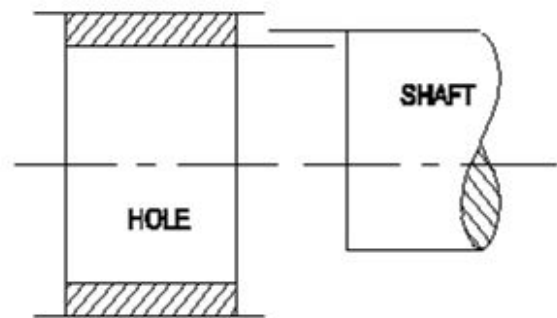
16). What is the name of the part marked as 'X' shown in the figure?



- (A) Tuyeres
- (B) Molten slag
- (C) Molten iron
- (D) Tapping hole

Correct Answer: A

17). What is the name of the fit shown in the figure?



- (A) Transition fit
- (B) Shrinkage fit
- (C) Clearance fit
- (D) Interference fit

Correct Answer: D

18). Why agricultural equipment is made up of wrought iron?

- (A) High cost
- (B) Heavy weight
- (C) Wear resistant
- (D) Corrosion resistant

Correct Answer: D

19). Why hole basis system is preferred over shaft basis system?

- (A) For easy handling of shaft
- (B) Easier to alter the shaft
- (C) Difficult to alter the shaft
- (D) Easier to check the shaft

Correct Answer: B

20). Which term refers to the relationship that exists between two mating parts?

- (A) Fit
- (B) Limit
- (C) Tolerance
- (D) Allowance

Correct Answer: A

21). What is the maximum limit of size, if the basic size of the hole is 25 mm and the deviation is  $\pm 0.2\text{mm}$ ?

- (A) 5.2 mm
- (B) 4.8 mm
- (C) 5.02 mm
- (D) 4.08 mm

Correct Answer: A

22). What is the purpose of dial test indicator attached to a vernier height gauge?

- (A) To check the parallelism
- (B) To check angular measurement
- (C) To check perpendicularity
- (D) To check the width of slots

Correct Answer: A

23). Which tool is used to remove high spots on all flat and curved surfaces?

- (A) File
- (B) Hacksaw
- (C) Chisel
- (D) Scraper

Correct Answer: D

24). What is the lower limit of size, if dimension is stated as

$$\begin{array}{r} +0.021 \\ \text{Ø } 25 \\ -0.000 \end{array}$$

- (A) 4.85 mm
- (B) 4.75 mm
- (C) 5.00 mm
- (D) 5.021 mm

Correct Answer: C

25). Which cast iron has the ability to reduce vibration and tool chattering in machine tools?

- (A) Grey cast iron
- (B) White cast iron
- (C) Nodular cast iron

(D) Malleable cast iron

Correct Answer: A

