

UNIT-1**EXAMS PRACTICE
MULTIPLE CHOICE QUESTIONS**

- 1 The number of base units in SI are:
a) 3
b) 5
c) 7
d) 9
- 3 Which one of the following is not a derived unit ?
a) Pascal
b) Kg
c) Newton
d) Watt
- 4 Amount of substance in terms of numbers is measured in:
a) kg
b) g
c) mole
d) Newton
- 5 An interval of $20 \mu\text{s}$ is equivalent to:
a) 0.2 s
b) 0.02 s
c) 2×10^{-4} s
d) 2×10^{-6} s
- 6 Least count of a Vernier calipers is
a) 0.01 mm
b) 0.1 mm
c) 0.01 cm
d) 0.1 cm
- 7 Which of the following is a base quantity:
a) Speed
b) Area
c) Force
d) Distance
- 8 SI Unit of electric current is:
a) Coulomb/sec
b) Ampere
c) Coulomb
d) Both a and b
- 9 1 km is equal to
a) 1000 m
b) 1×10^3 m
c) 10×10^2 m
d) all of these
- 10 Size of a plant cell is in the range of:
a) $1 \mu\text{m}$
b) $100 \mu\text{m}$
c) $10 \mu\text{m}$
d) 1mm
- 11 When zero line of Vernier scale is on the right side of zero line of main scale then there is:
a) Positive zero error
b) negative zero error
c) No zero error
d) None of these
- 12 When zero line of Vernier scale is on the left side of zero line of main scale then there is :
a) Positive zero error
b) negative zero error
c) No zero error
d) None of these
- 13 If pitch of a screw gauge is 1mm and no of div on circular scale are 50 . Least count is
a) 0.01 mm
b) 0.02 mm
c) 0.01 cm
d) 0.02 cm
- 14 Which of the instrument gives most precise result if length of an object is measured:-
a) measuring tape
b) meter rule
c) Vernier calipers
d) Screw gauge

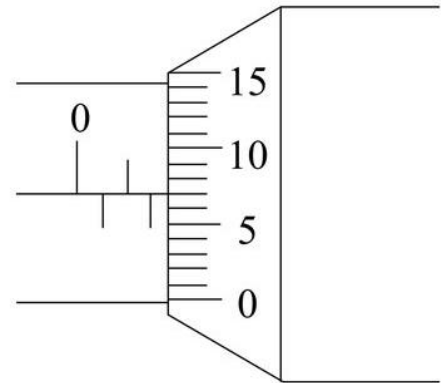
15 Radius of a sphere can be determined from diameter. Its formula is

- a) $r = 2d$
- b) $r = d^2$
- c) $r = \frac{d}{2}$
- d) $d = r^2$

16 The micrometer screw gauge has no zero error.

The reading of screw gauge is:

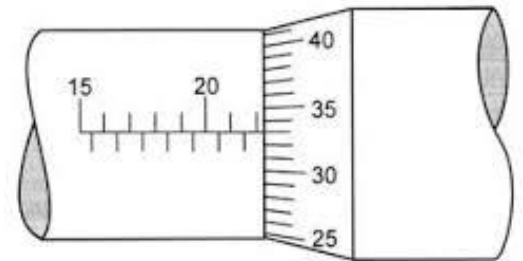
- a) 3.07 mm
- b) 1.07 mm
- c) 3.12 mm
- d) 1.43 mm



17 The micrometer screw gauge has no zero error.

The reading of screw gauge is:

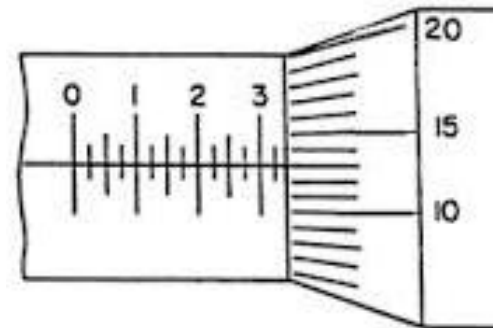
- a) 22.33 mm
- b) 24.33 mm
- c) 23.36 mm
- d) 21.43 mm



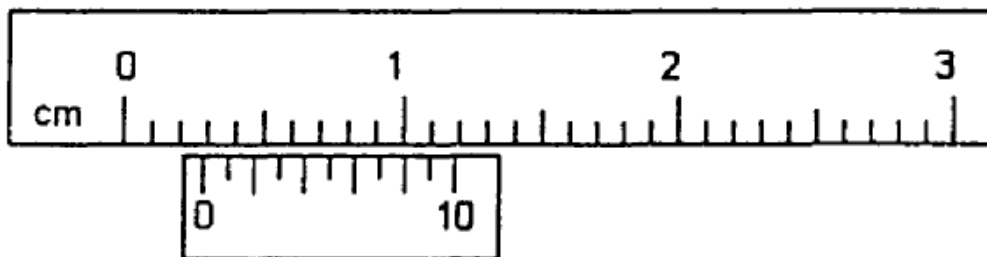
18 The micrometer screw gauge has no zero error.

The reading of screw gauge is:

- a) 3.33 mm
- b) 3.13 mm
- c) 3.66 mm
- d) 3.43 mm

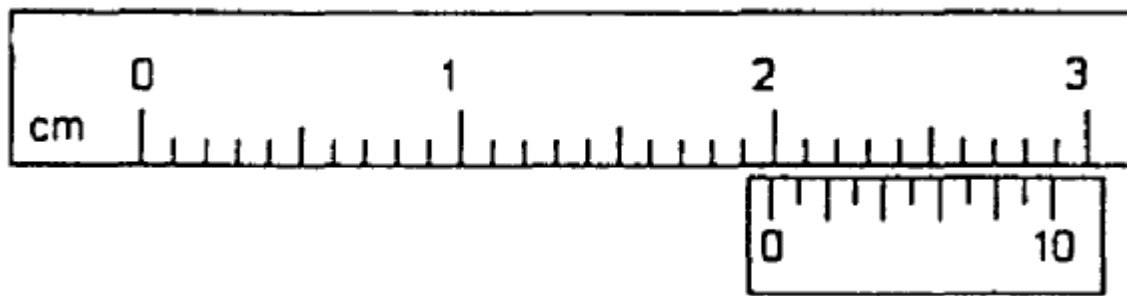


19 The vernier caliper has no zero error. The reading of vernier caliper is:



- a) **0.26 cm**
- b) 0.33 cm
- c) 0.66 cm
- d) 2.26 cm

20 The vernier caliper has no zero error. The reading of vernier caliper is:



- a) 1.26 cm b) 1.99 cm
c) 2.99 cm d) 2.26 cm

21 The unit of Luminous intensity is:

- (a) Decibel **(b) Candela**
(c) Diopetre (d) W/m^2

22 The number of significant figures 7.050×10^{-2} is:

- (a) 2 (a) 3
(c) 4 (d) 6

23. The number of significant figure in 2.50×10^3 is:

- (a) 2 **(b) 3**
(c) 4 (d) 7

24 The respective number of significant figures for the numbers 23.023, 0.0003 and 2.1×10^3 are:

- (a) 5, 1, 2** (b) 5, 1, 5
(c) 5, 5, 2 (d) 4, 4, 2

25 The quantity having the same unit in all system of unit is:

- (a) Mass **(b) Time**
(c) Length (d) Temperature