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Practice **Set 5** Solution

Units & **MEASUREMENT**

Topics :

1. Physical quantities and units.
2. Interconversion of units MKS (SI) to CGS and vice versa.

DDCET final exam weightage of this topic : 3 Questions (6 Marks)

**Total Practice sets
of this topic :**

$10 \text{ (sets) } \times 25 \text{ (questions) } = 250 \text{ Questions}$

**Total Practice tests
of this topic :**

$2 \text{ (exams) } \times 25 \text{ (questions) } = 50 \text{ Questions}$

**Offline / Online
during lecture :**

$4 \text{ (lectures) } \times 50 \text{ (Questions) } = 200 \text{ Question}$

**Total 500 Questions to
practice this topic**



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UNITY TRAINING ACADEMY FOR DDCET

Section 1 :

1. Physical quantities and units.
2. Interconversion of units MKS (SI) to CGS and vice versa.

1. The amount of substance is measured in:
A. Kilogram
B. Mole ✓
C. Candela
D. Meter
2. Which of the following pairs has the same physical dimensions?
A. Work and Power
B. Force and Energy
C. Torque and Work ✓
D. Momentum and Impulse
3. Which of the following is a unit of area?
A. Meter
B. Cubic meter
C. Square meter ✓
D. Newton
4. Which of the following is a unit of volume?
A. Meter
B. Square meter
C. Cubic meter ✓
D. Hertz
5. Which of the following is a scalar quantity?
A. Velocity
B. Force
C. Displacement
D. Speed ✓
6. Which of the following is a vector quantity?
A. Mass
B. Density
C. Temperature
D. Momentum ✓
7. 1 meter is equal to how many centimeters?
A. 10
B. 100 ✓
C. 1000
D. 0.01
8. 1 second in the SI system is equal to how many seconds in the CGS system?
A. 0.01
B. 0.1
C. 1 ✓
D. 100
9. A velocity of 10 m/s is equal to how many cm/s?
A. 0.1 cm/s
B. 1 cm/s
C. 100 cm/s
D. 1000 cm/s ✓
10. A mass of 500 g is equal to how many kilograms?
A. 0.05 kg
B. 0.5 kg ✓
C. 5 kg
D. 50 kg
11. A velocity of 50 cm/s is equal to how many m/s?
A. 0.05 m/s
B. 0.5 m/s ✓
C. 5 m/s
D. 500 m/s





UNITY TRAINING ACADEMY FOR DDCET

Section 1 :

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12. Which of the following is a supplementary unit in the SI system?

- A. Radian
- B. Steradian
- C. Both Radian and Steradian ✓
- D. Neither Radian nor Steradian

13. Which of the following is a unit of speed?

- A. m/s^2
- B. Ns
- C. km/h ✓
- D. kg m/s^2

14. Which of the following represents the smallest unit of length?

- A. Millimeter
- B. Micrometer
- C. Nanometer
- D. Femtometer ✓

15. An area of 1 square meter is equal to how many square centimeters?

- A. 100 cm^2
- B. 1000 cm^2
- C. $10,000 \text{ cm}^2$ ✓
- D. 0.0001 cm^2

16. A length of 0.5 meters is equal to how many millimeters?

- A. 5 mm
- B. 50 mm
- C. 500 mm ✓
- D. 0.0005 mm

17. A mass of 500 milligrams is equal to how many grams?

- A. 0.5 g ✓
- B. 0.05 g
- C. 0.005 g
- D. 500,000 g

18. A time interval of 3 minutes is equal to how many seconds?

- A. 30 s
- B. 180 s ✓
- C. 300 s
- D. 0.05 s

19. An area of 500 cm^2 is equal to how many square meters?

- A. 0.5 m^2
- B. 0.05 m^2 ✓
- C. 0.005 m^2
- D. $50,000 \text{ m}^2$

20. 1 liter = _____ cm^3 ?

- A. 10
- B. 100
- C. 1000 ✓
- D. 0.001

21. $1 \text{ km/h} =$ _____ m/s ?

- A. 3.6
- B. $1/3.6$ ✓
- C. 1000
- D. 3600





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22. The unit of gravitational field intensity is:

- A. N
- B. N/kg ✓
- C. kg/N
- D. J/kg

23. The unit of speed is:

- A. Meter (m)
- B. Second (s)
- C. Meter per second (m/s) ✓
- D. Kilogram (kg)

24. Force has units of:

- A. Kilogram (kg)
- B. Meter per second (m/s)
- C. Newton (N) ✓
- D.. Second (s)

25. The prefix "milli" stands for:

- A. One thousand
- B. One million
- C. One-thousandth ✓
- D. One-millionth

