

LOGIN TO **WWW.UNITYEXAMS.COM**  
AND START PREPARATION FOR DDCE

JOIN OUR **WHATSAPP GROUP**  
AND ACCESS ALL MATERIAL

# Practice **Set 5**

## Units & **MEASUREMENT**

### Topics :

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

DDCE 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



**91739 04421**



# 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 :

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

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.  $\text{m/s}^2$
- B.  $\text{Ns}$
- C.  $\text{km/h}$
- D.  $\text{kg m/s}^2$

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

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  $500 \text{ cm}^2$  is equal to how many square meters?

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

20. 1 liter = \_\_\_\_\_  $\text{cm}^3$ ?

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

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

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





# UNITY TRAINING ACADEMY FOR DDCET

## Section 1 :

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

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



[CLICK HERE TO JOIN OUR WHATSAPP GROUP AND ACCESS ALL MATERIALS](#)

