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Practice **Set 6**

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



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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. Which of the following is a fundamental quantity?

- A. Speed
- B. Force
- C. Mass
- D. Area

2. SI unit of temperature is:

- A. Celsius
- B. Fahrenheit
- C. Kelvin
- D. Joule

3. The derived unit of force is:

- A. Newton
- B. Kilogram
- C. Pascal
- D. Watt

4. Which of the following is not a base unit in SI system?

- A. Ampere
- B. Candela
- C. Mole
- D. Newton

5. The unit of electric current is:

- A. Coulomb
- B. Ampere
- C. Volt
- D. Ohm

6. How many fundamental units are there in SI system?

- A. 5
- B. 6
- C. 7
- D. 8

7. The SI unit of pressure is:

- A. Newton
- B. Pascal
- C. Bar
- D. Atmosphere

8. Which of the following physical quantities is scalar?

- A. Force
- B. Velocity
- C. Acceleration
- D. Energy

9. Which is the correct SI unit of energy?

- A. Newton
- B. Watt
- C. Joule
- D. Erg

10. The unit of momentum is:

- A. kg m/s
- B. kg m/s²
- C. kg m²/s
- D. N/s

11. The unit of frequency is:

- A. Second
- B. Hertz
- C. Meter
- D. Radian





UNITY TRAINING ACADEMY FOR DDCET

Section 1 :

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

12. 1 horsepower =

A. 746 W
B. 1000 W
C. 550 W
D. 960 W
13. SI unit of charge is:

A. Ampere
B. Volt
C. Coulomb
D. Farad
14. Which one is dimensionless?

A. Strain
B. Stress
C. Velocity
D. Time
15. SI unit of force is Newton. In CGS system, it is:

A. Erg
B. Dyne
C. Joule
D. Gram-force
16. What is the unit of Energy in CGS: [DDCET-2024]

A. Newton
B. Watt
C. Joule
D. Arg
17. 1 Pascal = _____ dyne/cm²

A. 10
B. 100
C. 1000
D. 10000
18. CGS unit of pressure is:

A. Dyne/cm²
B. Pascal
C. Erg/cm²
D. Newton/m²
19. 1 kg = _____ grams

A. 10
B. 100
C. 1000
D. 10000
20. 1 m/s = _____ cm/s

A. 10
B. 100
C. 1000
D. 10000
21. Which of the following is not a physical quantity?

A. Mass
B. Energy
C. Temperature
D. Beauty
22. The SI unit of electric resistance is:

A. Ohm
B. Ampere
C. Volt
D. Coulomb





UNITY TRAINING ACADEMY FOR DDCET

Section 1 :

1. Physical quantities and units.
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23. One light year is the distance:

- A. Light travels in one year
- B. Between Earth and Sun
- C. Across a galaxy
- D. Light travels in one second\

24. 1 cm = _____ m

- A. 0.001
- B. 0.01
- C. 0.1
- D. 0.0001

25. Which is larger: 1 dyne or 1 Newton?

- A. Dyne
- B. Newton
- C. Both equal
- D. Cannot be compared

