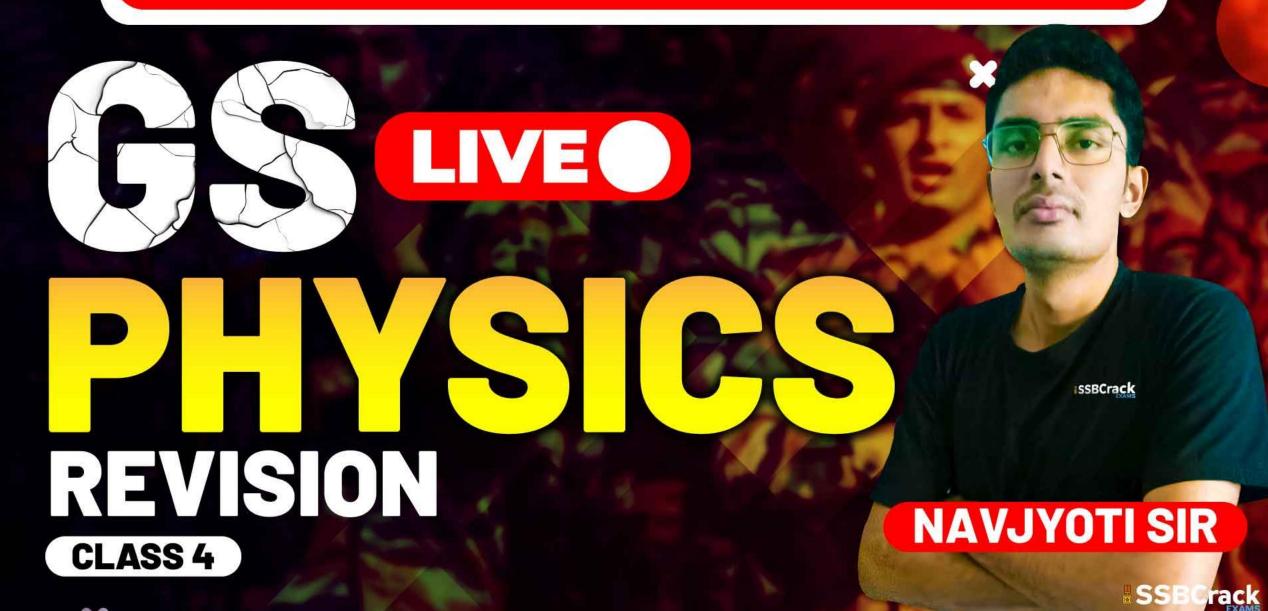
# NDA-CDS 2 2024





## 08 August 2024 Live Classes Schedule

8:00AM 08 AUGUST 2024 DAILY CURRENT AFFAIRS RUBY MA'AM

9:00AM O8 AUGUST 2024 DAILY DEFENCE UPDATES DIVYANSHU SIR

#### SSB INTERVIEW LIVE CLASSES

9:00AM INTRODUCTION OF TAT & WAT ANURADHA MA'AM

#### **AFCAT 2 2024 LIVE CLASSES**

1:00PM -- (MAHA MARATHON SESSION - PART 4

#### NDA 2 2024 LIVE CLASSES

11:00AM GK - POLITY REVISION - CLASS 1 RUBY MA'AM

22:00PM PHYSICS REVISION - CLASS 4 NAVJYOTI SIR

1:00PM MATHS REVISION - CLASS 4 NAVJYOTI SIR

2:00PM BIOLOGY REVISION - CLASS 4 SHIVANGI MA'AM

5:30PM — ENGLISH - MATCHING LIST - CLASS 1 ANURADHA MA'AM

#### CDS 2 2024 LIVE CLASSES

11:00AM GK - POLITY REVISION - CLASS 1 RUBY MA'AM

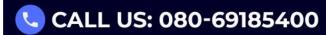
22:00PM PHYSICS REVISION - CLASS 4 NAVJYOTI SIR

2:00PM BIOLOGY REVISION - CLASS 4 SHIVANGI MA'AM

3:00PM MATHS REVISION - CLASS 4 NAVJYOTI SIR

5:30PM ENGLISH - MATCHING LIST - CLASS 1 ANURADHA MA'AM

EXA







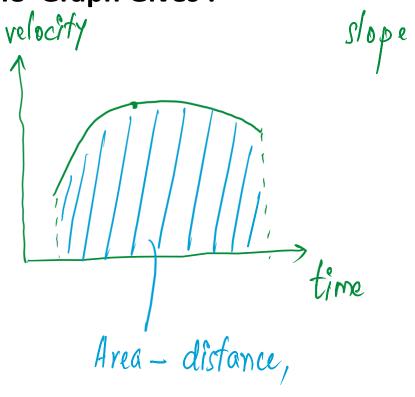
# REVISION TOPICS:

- Motion
- Laws of Motion



# 1. The Area Under Speed-time Graph Gives:

- A. Acceleration
- B. Velocity
- C. Distance
- D. None of the Above





# 1. The Area Under Speed-time Graph Gives:

- A. Acceleration
- B. Velocity
- C. Distance
- D. None of the Above



- 2. If an object moves with constant velocity then which one of the following statements is NOT correct?
  - (a) Its motion is along a straight line
  - (b) Its speed changes with time
  - (c) Its acceleration is zero
  - (d) Its displacement increases linearly with time



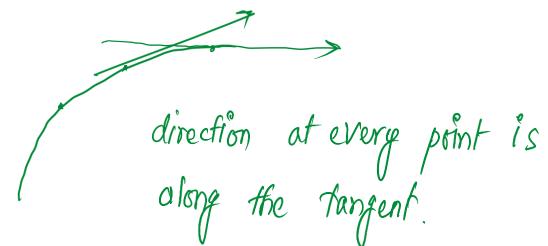
- 2. If an object moves with constant velocity then which one of the following statements is NOT correct?
  - (a) Its motion is along a straight line
  - (b) Its speed changes with time
  - (c) Its acceleration is zero
  - (d) Its displacement increases linearly with time

**Answer: B** 



3. An object moves along a curved path. The following quantities may remain constant during its motion.

- A. Speed
- B. Velocity «
- C. Magnitude of Acceleration
- D. Both A and C





- 3. An object moves along a curved path. The following quantities may remain constant during its motion.
- A. Speed
- B. Velocity
- C. Magnitude of Acceleration
- D. Both A and C



- An object is moving with uniform acceleration a. Its initial velocity is u and after time t its velocity is v. The equation of its motion is v = u + at. The velocity (along y-axis) time (along x-axis) graph shall be a straight line
  - (a) passing through origin
  - (b) with x-intercept u
  - (c) with y-intercept u
  - (d) with slope u

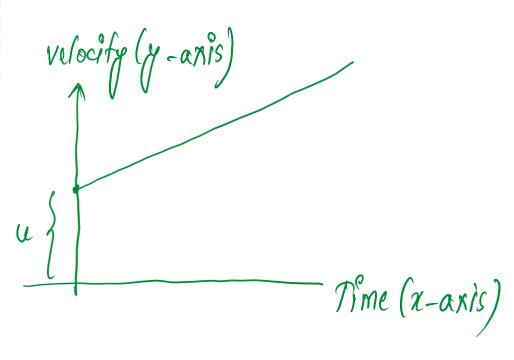


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(c) with y-intercept u

(d) with slope u

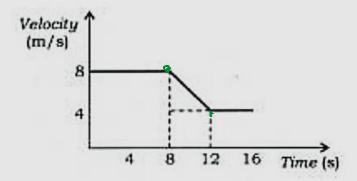
**Answer: C** 





Consider the following velocity and time graph:

# **5.**



Which one of the following is the value of average acceleration from 8 s to 12 s?

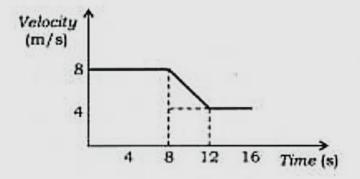
- (a) 8 m/s<sup>2</sup>
- (b) 12 m/s<sup>2</sup>
- (c) 2 m/s<sup>2</sup>

$$a = \frac{4 - 8}{12 - 8} = \frac{-4}{4} = -\frac{1}{12} = \frac{-1}{12} = \frac{1}{12} = \frac{1}{1$$



Consider the following velocity and time graph:

**5.** 



Which one of the following is the value of average acceleration from 8 s to 12 s?

- (a) 8 m/s<sup>2</sup>
- (b) 12 m/s<sup>2</sup>
- (c) 2 m/s<sup>2</sup>
- (d) -1 m/s2

**Answer: D** 



A car starts from Bengaluru, goes 50 km in a straight line towards south, immediately turns around and returns to Bengaluru. The time taken for this round trip is 2 hours. The magnitude of the average velocity of the car for this round trip

- (a) is 0.
- (b) is 50 km/hr.
- (c) is 25 km/hr.
- (d) cannot be calculated without knowing acceleration.

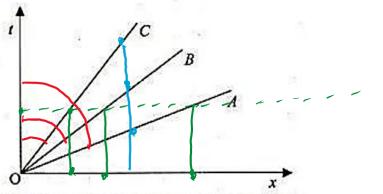


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- (a) is 0.
- (b) is 50 km/hr.
- (c) is 25 km/hr.
- (d) cannot be calculated without knowing acceleration.

**Answer: A** 





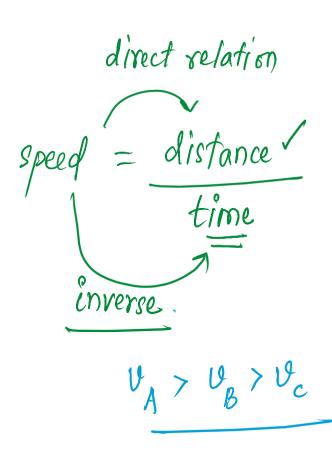
The figure shown above gives the time (t) versus position (x) graphs of three objects A, B and C. Which one of the following is the correct relation between their speeds  $V_A$ ,  $V_B$  and  $V_C$ , respectively at any instant (t > 0)?

(a) 
$$V_A < V_B < V_C$$

(b) 
$$V_A > V_B > V_C$$

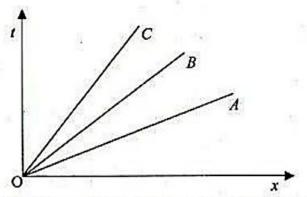
(c) 
$$V_A = V_B = V_C \neq 0$$

(d) 
$$V_A = V_B = V_C = 0$$



(d)  $v_A = v_B = v_C = 0$   $\{(OR) O - angle mode by lines with time - axis greater <math>O - greater speed \}$ 



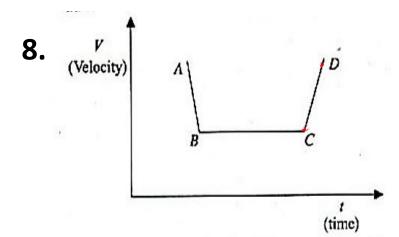


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- (a)  $V_A < V_B < V_C$
- (b)  $V_A > V_B > V_C$
- (c)  $V_A = V_B = V_C \neq 0$ (d)  $V_A = V_B = V_C = 0$

**Answer: B** 





In the given velocity (V) versus time (t) graph, accelerated and decelerated motions are respectively represented by line segments

increasing velocity (CD)

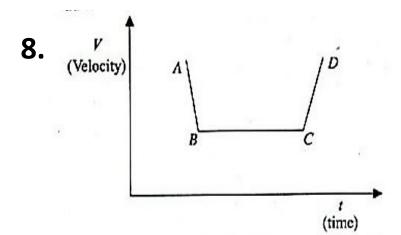
- (a) CD and BC
- (b) BC and AB
- (c) CD and AB
- (d) AB and CD

reducing accleration/ negative Value of accleration,

decreasing velocity

(AB)





In the given velocity (V) versus time (t) graph, accelerated and decelerated motions are respectively represented by line segments

- (a) CD and BC
- (b) BC and AB
- (c) CD and AB
- (d) AB and CD

**Answer: C** 



- 9. A tennis ball is thrown in the vertically upward direction and the ball attains a maximum height of 20 m. The ball was thrown approximately with an upward velocity of
  - (a) 8 m/s
  - (b) 12 m/s
  - (c) 16 m/s
  - (d) 20 m/s

$$H = \frac{u^2 s/n^2 o}{2g}$$

$$0 = 90^{\circ}, \quad H = \frac{u^{2}(1)}{2\pi}$$

$$20 = \frac{u^2}{2 \times 10^2}$$

$$u^2 = 20 \times 40 \Rightarrow u = 20 \text{ m/s}$$



- 9. A tennis ball is thrown in the vertically upward direction and the ball attains a maximum height of 20 m. The ball was thrown approximately with an upward velocity of
  - (a) 8 m/s
  - (b) 12 m/s
  - (c) 16 m/s
  - (d) 20 m/s

### **Answer: D**



- 10. A uniform motion of a car along a circular path experiences
  - (a) a change in speed due to a change in its direction of motion.
  - (b) a change in velocity due to a change in its direction of motion.
  - (c) a change in momentum due to no change in its direction of motion.
  - (d) a constant momentum due to a change in its direction of motion.



10. A uniform motion of a car along a circular path experiences

- (a) a change in speed due to a change in its direction of motion.
- (b) a change in velocity due to a change in its direction of motion.
- (c) a change in momentum due to no change in its direction of motion.
- (d) a constant momentum due to a change in its direction of motion.

**Answer: B** 



- 11. Which one of the following statements about speed and velocity is correct?
  - (a) Speed and velocity both are vector quantities.
  - (b) Speed and velocity both are scalar quantities.
  - (c) Speed is vector quantity and velocity is scalar quantity.
  - (d) Speed is scalar quantity and velocity is vector quantity.



- 11. Which one of the following statements about speed and velocity is correct?
  - (a) Speed and velocity both are vector quantities.
  - (b) Speed and velocity both are scalar quantities.
  - (c) Speed is vector quantity and velocity is scalar quantity.
  - (d) Speed is scalar quantity and velocity is vector quantity.

**Answer: D** 



- **12.** What is the nature of velocity-time graph for a car moving with uniform acceleration?
  - (a) Parabola
  - (b) Logarithmic
  - (c) Straight line
  - (d) Exponential



- 12. What is the nature of velocity-time graph for a car moving with uniform acceleration?
  - (a) Parabola
  - (b) Logarithmic
  - (c) Straight line
  - (d) Exponential

**Answer: D** 



- his car for the distance covered from 2000 km at the start of his journey and 2400 km at the end of the journey after 8 hours. What is the average speed of the car?
  - (a) 50 km/h
  - (b) 60 km/h
  - (c) 70 km/h
  - (d) 80 km/h

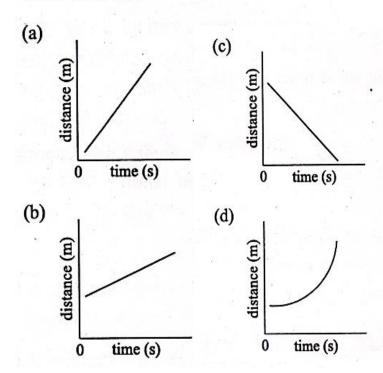


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  - (a) 50 km/h
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  - (c) 70 km/h
  - (d) 80 km/h

**Answer: A** 

SSBCrack EXAMS

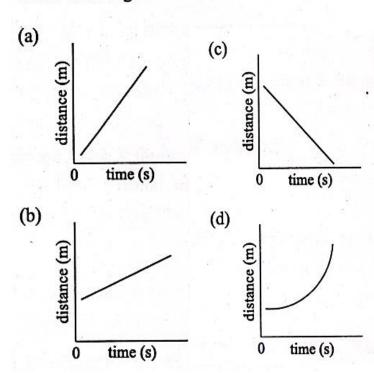
Which one of the following graphs represents the equation of motion v = u + at; where all quantities are non-zero and symbols carry their usual meanings?





Which one of the following graphs represents the equation of motion v = u + at; where all quantities are non-zero and symbols carry their usual meanings?

**Answer: D** 





A stone is thrown horizontally from the top of a 20 m high building with a speed of 12 m/s. It hits the ground at a distance R from the building. Taking g = 10 m/s<sup>2</sup> and neglecting air resistance will give:

- (a) R = 12 m
- (b) R = 18 m
- (c) R = 24 m
- (d) R = 30 m



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- (a) R = 12 m
- (b) R = 18 m
- (c) R = 24 m
- (d) R = 30 m

**Answer: C** 



16. A person travels distance  $\pi R$  along the circumference of a circle of radius R. Displacement of the person is

- A. R
- B. 2R
- C.  $2\pi R$
- D. 0



16. A person travels distance  $\pi R$  along the circumference of a circle of radius R. Displacement of the person is

- A. R
- **B.** 2R
- C.  $2\pi R$
- D. 0



# 17. The distance – time graph of a body moving along a straight path in a single direction with uniform speed will be

- A. Along X Axis
- B. A line with +ve slope
- C. Parallel to X Axis
- D. None of these



- 17. The distance time graph of a body moving along a straight path in a single direction with uniform speed will be
- A. Along X Axis
- B. A line with +ve slope
- C. Parallel to X Axis
- D. None of these



18. A particle is moving in a circle of radius R with a constant speed v. Its average acceleration over the time when it moves over half the circle is:

- (a)  $\frac{v^2}{R}$
- (b)  $\frac{\pi v^2}{2R}$
- (c)  $\frac{2v^2}{\pi R}$
- (d) 0



18. A particle is moving in a circle of radius R with a constant speed v. Its average acceleration over the time when it moves over half the circle is:

- (a)  $\frac{v^2}{R}$
- (b)  $\frac{\pi v^2}{2R}$
- (c)  $\frac{2v^2}{\pi R}$
- (d) 0

**Answer: C** 



- 19. A motorcyclist drives from place A to B with a uniform speed of 30 km h<sup>-1</sup> and returns from place B to A with a uniform speed of 20 kmh<sup>-1</sup>. Find his average speed.
- A. 12 kmh<sup>-1</sup>
- B. 6kmh<sup>-1</sup>
- C. 24 kmh<sup>-1</sup>
- D. 10 kmh<sup>-1</sup>



- 19. A motorcyclist drives from place A to B with a uniform speed of 30 km h<sup>-1</sup> and returns from place B to A with a uniform speed of 20 kmh<sup>-1</sup>. Find his average speed.
- A. 12 kmh<sup>-1</sup>
- B. 6kmh<sup>-1</sup>
- C. 24 kmh<sup>-1</sup>
- D. 10 kmh<sup>-1</sup>



20. John is travelling from home to his school. He travels a distance of 3 km towards East, then 4 km towards North and finally 9 km towards East. Is the distance and displacement equal in this case ?

- A. Yes
- B. No
- C. Maybe
- D. Can't say



20. John is travelling from home to his school. He travels a distance of 3 km towards East, then 4 km towards North and finally 9 km towards East. Is the distance and displacement equal in this case?

- A. Yes
- B. No
- C. Maybe
- D. Can't say



- Two forces of 5.0 N each are acting on a point mass. If the angle between the forces is 60°, then the net force acting on the point mass has magnitude close to:
  - (a) 8.6 N
  - (b) 4·3 N
  - (c) 5.0 N
  - (d) 6.7 N



Two forces of 5.0 N each are acting on a point mass. If the angle between the forces is 60°, then the net force acting on the point mass has magnitude close to:

**Answer: A** 

- (a) 8.6 N
- (b) 4·3 N
- (c) 5.0 N
- (d) 6.7 N



# LAWS OF MOTION



## 1. The SI Unit Of Momentum Is

- A. kgms<sup>-1</sup>
- B. kgms<sup>-2</sup>
- C. kgm<sup>-1</sup>s<sup>-2</sup>
- D. None of these



## 1. The SI Unit Of Momentum Is

- A. kgms<sup>-1</sup>
- B. kgms<sup>-2</sup>
- C.  $kgm^{-1}s^{-2}$
- D. None of these

Momentum = mass x velocity

kg ms-1



2. Car A Of Mass 1500 kg Travelling At 25 m/s Collides With Another Car B Of Mass 1000 kg Travelling At 15 m/s In The Same Direction. After Collision The Velocity of Car A Becomes 20 m/s. What Is The Velocity Of Car B After Collision?

A. 25 m/s  $1500 \times 25 + 1000 \times 15 = 1500 \times 20 + 1000 \times 0$ 

B. 22.5 m/s

C. 36.7 m/s

D. 16.7 m/s

 $u_{1} + m_{2}u_{2} = m_{1}v_{1} + m_{2}v_{2}$   $u_{2} + m_{3}v_{4} + m_{4}v_{2}$ After collision



2. Car A Of Mass 1500 kg Travelling At 25 m/s Collides With Another Car B Of Mass 1000 kg Travelling At 15 m/s In The Same Direction. After Collision The Velocity of Car A Becomes 20 m/s. What Is The Velocity Of Car B After Collision?

- A. 25 m/s
- B. 22.5 m/s
- C. 36.7 m/s
- D. 16.7 m/s



# 3. When A Body Is Stationary:

- A. There Is No Force Acting On It
- B. The Forces Acting On It Are Not In Contact With It
- C. The Combination Of Forces Acting On It Balances Each Other
- D. The Body Is In Vacuum



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- B. The Forces Acting On It Are Not In Contact With It
- C. The Combination Of Forces Acting On It Balances Each Other
- D. The Body Is In Vacuum



4. A Cricket Player Catches A Ball Of Mass 10<sup>-1</sup> kg Moving With A Velocity Of 25 ms<sup>-1</sup>. If The Ball Is Caught In 0.1 s, The Force Of The Blow Exerted On The Hand Of The

Player Is

A. 
$$4N$$

The pulse =  $f \times t = change in momentum = mass (change in relocity)

B.  $25N - f \times t = 0.1(0-25)$ 

C.  $40N$$ 

C. 40 N  
D. 250 N
$$F = -\frac{2.5}{0.1} = -35 \text{ N}$$

$$magnifiede$$
(-re due



4. A Cricket Player Catches A Ball Of Mass 10<sup>-1</sup> kg Moving With A Velocity Of 25 ms<sup>-1</sup>. If The Ball Is Caught In 0.1 s, The Force Of The Blow Exerted On The Hand Of The Player Is

- A. 4 N
- B. 25 N
- C. 40 N
- D. 250 N



# 5. A Football And A Stone Has Same Mass,

- A. Both Have Same Inertia
- B. Both Have Same Momentum
- C. Both Have Different Inertia
- D. Both Have Different Momentum



# 5. A Football And A Stone Has Same Mass,

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- B. Both Have Same Momentum
- C. Both Have Different Inertia
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- 6. \_\_\_\_\_ is responsible for the change in magnitude of speed.
- A. Momentum
- B. Force
- C. Speed
- D. Kinetic Energy



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- A. Momentum
- B. Force
- C. Speed
- D. Kinetic Energy



- **7.** Which one of the following has maximum inertia?
  - (a) An atom
  - (b) A molecule

max. mass \_\_\_\_\_ max. inertia

- (c) A one-rupee coin
- (d) A cricket ball

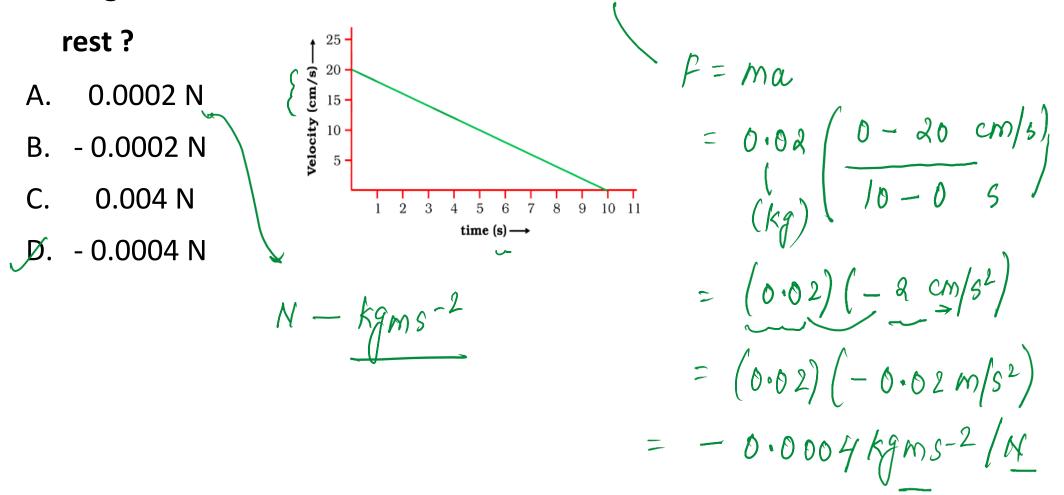


- 7. Which one of the following has maximum inertia?
  - (a) An atom
  - (b) A molecule
  - (c) A one-rupee coin
  - (d) A cricket ball

**Answer: D** 



8. The velocity-time graph of a ball of mass 20 g moving along a straight line on a long table is shown. How much force does the table exert on the ball to bring it to

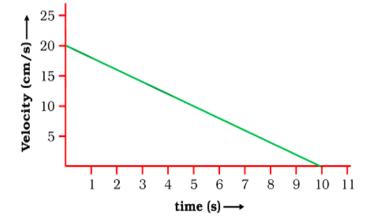




8. The velocity-time graph of a ball of mass 20 g moving along a straight line on a long table is shown. How much force does the table exert on the ball to bring it to

rest?

- A. 0.0002 N
- B. 0.0002 N
- C. 0.004 N
- D. 0.0004 N





- 9. The statement "friction force is a contact force while magnetic force is a non-contact force" is
  - (a) always true.
  - (b) true only at 0°C.
  - (c) a false statement.
  - (d) either true or false depending upon the temperature of the surroundings.



- 9. The statement "friction force is a contact force while magnetic force is a non-contact force" is
  - (a) always true.
  - (b) true only at 0°C.
  - (c) a false statement.
  - (d) either true or false depending upon the temperature of the surroundings.

## **Answer: A**



A bullet of mass 10 g is horizontally fired with velocity 300 m s<sup>-1</sup> from a pistol of mass 1 kg. What is the recoil velocity of the pistol?

(a) 
$$0.3 \text{ m s}^{-1}$$

(b) 
$$3 \text{ m s}^{-1}$$

(c) 
$$-3 \text{ m s}^{-1}$$

(d) 
$$-0.3 \text{ m s}^{-1}$$

Initial momentum = Final momentum 
$$0 + 0 = (0.01)(300) + 1(10)$$

$$v = -3 \text{ m/s}$$



A bullet of mass 10 g is horizontally fired with velocity 300 m s<sup>-1</sup> from a pistol of mass 1 kg. What is the recoil velocity of the pistol?

## **Answer: C**

- (a)  $0.3 \text{ m s}^{-1}$
- (b)  $3 \text{ m s}^{-1}$
- (c)  $-3 \text{ m s}^{-1}$
- (d)  $-0.3 \text{ m s}^{-1}$



11. An Object Of Mass 2 kg Is Sliding With A Constant Velocity Of 4 m/s On A Frictionless Horizontal Table. The Force Required To Keep The Object Moving With The Same Velocity Is

- A. 32 N
- B. 0 N
- C. 2 N
- D. 8 N



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- A. 32 N
- **B. O N**
- C. 2 N
- D. 8 N



# 12. With reference to the third law of motion, Action and Reaction happens at

\_\_\_\_•

- A. Same Time
- B. Different Time
- C. Action happens first and then Reaction
- D. Reaction happens first and then Action



12. With reference to the third law of motion, Action and Reaction happens at

\_\_\_\_\_•

### A. Same Time

- B. Different Time
- C. Action happens first and then Reaction
- D. Reaction happens first and then Action



- A boy of mass 52 kg jumps with a horizontal velocity of 2 m/s onto a stationary cart of mass 3 kg. The cart is fixed with frictionless wheels. Which one of the following would be the speed of the cart?
  - (a) 2·15 m/s
  - (b) 1.89 m/s
  - (c) 1.51 m/s
  - (d) 2.51 m/s



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- (c) 1.51 m/s
- (d) 2.51 m/s

**Answer: B** 

#### NDA & CDS 2 2024 - REVISION - PHYSICS - CLASS 4



- 14. Sand falls vertically on a conveyor belt at a rate of 0.1 kg/s. In order to keep the belt moving at a uniform speed of 2 m/s, the force required to be applied on the belt is:
  - (a) 0 N
  - (b) 0.2 N
  - (c) 1.0 N
  - (d) 2·0 N



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  - (a) 0 N
  - (b) 0.2 N
  - (c) 1.0 N
  - (d) 2·0 N

#### **Answer: B**



The motion of a particle of mass m is described by the relation,  $y = ut - \frac{1}{2} gt^2$ , where u is the initial velocity of the particle. The force acting on the particle is

(a) 
$$F = m \left( \frac{du}{dt} \right)$$

(b) 
$$F = mg$$

(c) 
$$F = m \left( \frac{dy}{dt} \right)$$

(d) 
$$F = -mg$$



The motion of a particle of mass m is described by the relation,  $y = ut - \frac{1}{2} gt^2$ , where u is the initial velocity of the particle. The force acting on the particle is

(a) 
$$F = m \left( \frac{du}{dt} \right)$$

- (b) F = mg
- (c)  $F = m \left( \frac{dy}{dt} \right)$
- (d) F = -mg

**Answer: D** 



16. A driver accelerates his car first at the rate of 4 m/s<sup>2</sup> and then at the rate of 8 m/s<sup>2</sup>. Calculate the ratio of forces exerted by the engine.

- A. 2:3
- B. 3:4
- C. 2:1
- D. 1:2



16. A driver accelerates his car first at the rate of 4 m/s<sup>2</sup> and then at the rate of 8 m/s<sup>2</sup>. Calculate the ratio of forces exerted by the engine.

- A. 2:3
- B. 3:4
- C. 2:1
- D. 1:2



## 17. A Goalkeeper In A Game Of Football Pulls His Hands Backwards After Holding The Ball Shot At Goal. This Enables The Goalkeeper To

- A. Exert Large Force On The Ball
- B. Increase The Force Exerted By The Ball On Hands
- C. Increase The Rate Of Change Of Momentum
- D. Decrease The Rate Of Change Of Momentum



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## 18. Type of inertia that tends to Resist the change in case of an athlete often jumps before taking a long jump

- A. Inertia of Rest
- B. Inertia of Motion
- C. Inertia of Direction
- D. Uniformly Accelerated Motion



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19. A Sedan Car Of Mass 200 kg Is Moving With A Certain Velocity. It Is Brought To Rest By The Application Of Brakes, Within A Distance Of 20 m When The Average Resistance Being Offered To It Is 500 N. What Was The Velocity Of The Motor Car?

- A. 40 m/s
- B. 30 m/s
- C. 20 m/s
- D. 10 m/s



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- A. 40 m/s
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### 20. In the absence of External force, the velocity \_\_\_\_\_.

- A. Remains constant
- B. Vanishes
- C. Changes continously
- D. None of the Above



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### REVISION TOPICS:

(09/08/24)

- Work, Energy and Power
- Gravitation

# NDA-CDS 2 2024

