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Question 6. In the given experimental set-up (Figure B) a student gave the card a sharp, fast horizontal flick with a finger.



Figure B

1. What will happen to the coin
2. Write reason for your answer.

Answer:

1. The coin will fall into the glass.
2. The card will move, when a fast horizontal flick with a finger is given to it. On the other hand, coin remains at rest due to inertia of rest and hence falls into the glass.

Question 7. State the effect of force in each of the following cases.

1. A spring is stretched,
2. A hockey player hits an incoming ball
3. A football lying on the ground is kicked.

Answer:

1. Length of spring increases and hence its shape is changed.
2. The direction of the ball is changed.
3. Football comes in motion from rest state.

Question 8. (a) Initial and final momentum
 (b) Change of momentum
 (c) Rate of change of momentum.

Answer: (a) Initial and final momentum remain the same as they do not depend on time.

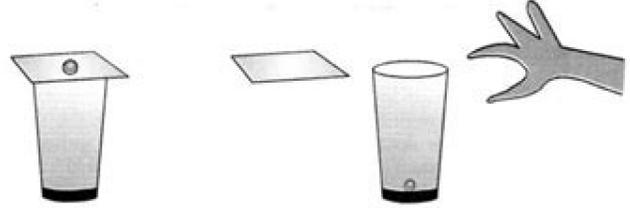
(b) Change in momentum remains the same as change in momentum = Final momentum-initial momentum.

(c) Rate of change of momentum = $\frac{\text{Change in momentum}}{\text{time taken}}$

therefore, rate of change of momentum is Time taken doubled if time is reduced to half.



Question 41. In the figure below, the card is flicked with a push.



- (a) What do you observe in above case and why
- (b) State the law involved in this case.
- (c) What will be your observation if the above coin is replaced by a heavy five rupee coin. Justify your answer.

Answer: (a) The coin falls into the glass. The card comes in motion due to push but coin on the card remains at rest. The coin falls into the glass due to inertia of rest.

- (b) Law of inertia or First law of motion.
- (c) Heavy coin will also fall into the glass. The heavy coin has more inertia than the lighter coin.

Question 42. State Newton's Third law of motion. Are the forces mentioned in the law balanced forces Why Will they always produce accelerations of equal magnitude Why

Answer: For every action, there is equal and opposite reaction. Forces are not balanced forces because both the forces act on two different bodies. They do not produce the same acceleration because acceleration = $\frac{F}{m}$. Since masses (m) of both the bodies are different, so accelerations of both the bodies are different.

Question 43. When a person hits a stone, his foot is injured. Why (CBSE 2011)

Answer: When a person hits a stone, the stone exerts equal force on his foot. Due to this force, his foot gets injured.

Question 44. According to Newton's third law of motion, a ball falling towards earth exerts a force on the earth but the motion of earth towards the ball is not noticed. Explain why

Answer: The acceleration produced in the earth is very small as its mass is very large. Hence, the motion of the earth towards ball is not noticed.

Name _____ Class _____ Date _____

Assessment
Chapter Test A

States of Matter

MULTIPLE CHOICE

- Write the letter of the correct answer in the space provided.
1. Boyle's law explains the relationship between volume and pressure for a fixed amount of
 - a. a solid.
 - b. a liquid.
 - c. a gas.
 - d. any type of matter.
 2. Which of these factors could affect the temperature at which water boils?
 - a. the volume of water in the pot
 - b. the atmospheric pressure at which the water is heated
 - c. the amount of energy added to the water
 - d. the type of fuel used to heat the water
 3. How do the particles of water that evaporate from an open container differ from the particles that remain?
 - a. The evaporated particles only have more speed.
 - b. The evaporated particles have greater order.
 - c. The evaporated particles only have higher energy.
 - d. The evaporated particles have more speed and higher energy.
 4. Which of the following occurs when a liquid becomes a gas?
 - a. The particles give off energy.
 - b. The particles break away from one another.
 - c. The particles move closer together.
 - d. The particles slow down.
 5. According to Charles's law,
 - a. heating a balloon will cause it to expand.
 - b. crushing a closed container of gas will increase the pressure.
 - c. pumping more air into a basketball will increase the pressure.
 - d. filling a balloon with helium will cause it to rise.

Name _____ Period _____ Date _____

QUIZ: Newton's Laws of Motion

Match the correct description with the correct term. Write the letter in the space provided.

1. the tendency of all objects to resist change in motion
2. an object at rest remains at rest, and an object in motion remains in motion unless acted on a force
3. for every action there is an equal & opposite reaction force
4. the acceleration of an object depends on its mass and the force acting on it

- a. Newton's 1st Law
- b. Newton's 2nd Law
- c. Newton's 3rd Law
- d. Motion
- e. Inertia

Write the letter of the correct answer in the space provided.

5. Which is true about the reaction force of a chair you are sitting on?
 - a. the force is greater than your weight
 - b. the force is equal to your weight
 - c. the force is determined by many factors
 - d. the force varies
6. Which of the following is the equation for Newton's 2nd Law of Motion?
 - a. $F = m \cdot a$
 - b. $ts = t^2 \cdot a$
 - c. $a = \frac{F}{m}$
 - d. $a = \frac{F}{t^2}$
7. Which is a common force acting on objects in motion?
 - a. inertia
 - b. acceleration
 - c. friction
 - d. speed
8. Which of the following has the **LEAST** acceleration?
 - a. an empty shopping cart pushed with a hard force
 - b. a full shopping cart pushed with a hard force
 - c. an empty shopping cart pushed with a light force
 - d. a full shopping cart pushed with a light force
9. According to Newton's 1st law of motion, a moving object that is not acted on by a force will
 - a. remain in motion
 - b. remain at rest
 - c. accelerate
10. Action and reaction force pairs are present even when there is no motion.
 - a. TRUE
 - b. FALSE

Name **KRY** Period _____ Date _____

A force equal to size and opposite direction is called _____ . The change of gas liquid is called vaporization. To move a wardrobe of weight of 70 kg, the applied force is of 250 N. corresponds to the following: \dot{A} , \dot{A} , \dot{A} , \dot{A} . 1 gas in liquid a fusion 2 solid liquid liquid b Vaporization 3 gas liquid c Condensation 1 - B, 2 - A, 3 - C 1 - C, 2 - A, 3 - B 1 - A, 2 - C, 3 - B 1 - B, 2 - C, 3 - A 1 - A, 2 - B, 3 - C Correct option: B Explanation: It is correct. Assertion (a): when the pile of coins on the carriage is struck by a striker; Only the bottom coin goes away, leaving the rest of the pile of coins in the same place. The change of gas in liquid is called condensate. Correct option: and explanation: yes, it is correct, since the declaration is false. Reason (R): the lower coin is moving, while the rest of the coins in the stack has a tendency to stay in rest and fall vertically on the carwinder and remain in the same place. When the water is warm when the water reaches 1000C when the water is heated above its boiling temperature when the water reaches its corrected option vaporization temperature: D Explanation: Yes, when the water is heated after reaching 100 water that starts to boil. This happens because when the battery is struck by a striker, the bottom coin is moving while the rest of the coins in the stack has a tendency to remain in the rest and fall vertically on the Carom and remain in the same place. (c) The speed of a moving object decreases. At this temperature it turns into steam. Either a and r are correct or is correct reason for AA is correct but it is incorrect, both are correct, but r is not the correct reason for both incorrect to it is correct è è an incomplete reason of the correct option: an explanation: yes, both are correct: an explanation: Yes, the balanced force \dot{A} equals in size and opposite in direction. There's \dot{A} happens because, when suddenly the fabric \dot{A} is moving giving jerks, the drops of water have a tendency to stay in rest and are separated by cloths and fall to the ground. The unbalanced force can change the shape and size of an object. To move our hand in liquids, like water, we have to apply force, but in a solid like wood, we cannot move our hand. Boiling Evaporation Evaporation Vaporization Condensation Correct option: And Explanation: Yes, \dot{A} correct. Mr. Robert Brown, a Scottish botanist who observed the random movement of pollen grains in water in 1827, is called the Brownian movement. Reduced to zero suddenly increased suddenly reduced gradually increased gradually will not be made the correct option: an explanation: yes, \dot{A} the correct answer. \dot{A} composed of a rigid particle solid particles Continue to move randomly Solid particles have no space in the middle as Sri was applying less force to the surface of Particles is slippery correct option: C Explanation: Yes, the strength of attraction between solid particles is the largest. e) It is not possible to change the shape and size of an object. The change in steam liquid is called vaporization. Which of the following actions does not show any strength effect? If the ball stops suddenly, his momentum will be reduced to

zero instantly. So, the answer is 250 N. The friction strength exercised on the wardrobe will be _____. Ramesh wanted to move the hand in gas, liquid and solid freely. Which of the following processes is only when the temperature decreased? Option Correct speed speed strength Motion option Correct: B Explanation: Yes, it is correct. a) Move a fixed object. The sugar dissolves in the water the random movement of pollen grains in water dancing dust particles in sunbeam mixing two different color gases all these correct options: B Explanation: Yes, it is correct. If the result of the applied forces is always _____, the forces are called unbalanced forces. b) increases the speed of a moving object. But couldn't he move in solid, which of the following is the best reason? Gradually reduce the size evaporate drop down uniformly uniformly combine and drop down the option: C Explanation: Yes, water droplets fall on the ground, which helps clothes to dry quickly. When the pile of coins on the cardboard is struck by a striker: The only bottom coin moves away, leaving the rest of the pile of coins at the same point. Before hanging the wet clothes over the laundry line, usually many idiots are given to clothes to make them dry quickly. Football Football Application of brakes In a car Turn the handle of a cycle to turn the color of the wall stretching a correct rubber band option: Explanation: SA ÷, A' the right answer, because A© will not' because of force. The transition from solid to liquid A' called fusion. Because of the morons, the droplets of in the pores of the cloth _____. Condensation occurs only when the temperature decreases. While grabbing a cricket ball, the ball's momentum A' _____ when it is stopped immediately after arriving in the player's hands. The force' the push or pull needed to perform a job. Robert Brown, a Scottish botanist, observed that _____ less than zero greater than zero equal to one of the forces equal to the friction force Correction Option: C Explanation: SAV, if the result of the applied forces A' greater than zero, is called unbalanced forces. When does the water change in its steam form? shape?

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