

Name:

Date:

- 01.** Example of non-contact force is/are: -  
(a). Magnetic force (b). Gravitational force (c). Electrostatic force (d). all the above
- 02.** 1 kg-wt. is equivalent to: -  
(a). 9 N (b). 9.8 N (c). 8 N (d). 8.8 N
- 03.** A push or a pull applied on an object is defined as :-  
(a). force (b). area (c). pressure (d). speed
- 04.** Tennis player will send the ball to his contender by :-  
(a). pushing (b). pulling (c). hitting (d). lifting
- 05.** Pressure has another unit named: -  
(a). Pascal (b). Tesla (c). Ohm (d). Joule
- 06.** In tug of war and the force applied is: -  
(a). push (b). pull (c). hit (d). kick
- 07.** Force can be described by stating its: -  
(a). speed (b). magnitude (c). direction (d). both b & c
- 08.** To increase the speed of swing the child's father must: -  
(a). pull the swing (b). kick the swing (c). push the swing (d). lift the swing
- 09.** The force involved in picking up a school bag is: -  
(a). gravitational force (b). muscular force (c). magnetic force (d). electrostatic force
- 10.** The correct relation between force, pressure and area is: -  
(a).  $\text{pressure} = \text{area}/\text{force}$  (b).  $\text{area} = \text{pressure}/\text{force}$  (c).  $\text{force} = \text{pressure}/\text{area}$  (d).  $\text{pressure} = \text{force}/\text{area}$
- 11.** The force we use while ploughing is :-  
(a). magnetic force (b). muscular force (c). frictional force (d). gravitational force
- 12.** Pressure exerted by a liquid on the wall of vessel is :-  
(a). more towards bottom (b). equal in all directions  
(c). more on the sides (d). both a & c
- 13.** Pressure in liquids increases with :-  
(a). depth of liquid (b). density of solute (c). nature of vessel (d). all the above
- 14.** While opening a drawer you are :-  
(a). pushing (b). hitting (c). pulling (d). lifting
- 15.** In a given situation what does a child do while playing with moulding clay?  
(a). lifting (b). hitting (c). pulling (d). pushing
- 16.** CGS unit of pressure is: -  
(a). Newton (b).  $\text{Newton}/\text{m}^2$  (c).  $\text{dyne}/\text{cm}^2$  (d). kg/Newton
- 17.** Which force will act between two charged objects?  
(a). gravitational force (b). electrostatic force (c). frictional force (d). muscular force
- 18.** If 2 or more forces act on a body in the same direction: -  
(a). net force decreases (b). net force increases  
(c). net force remains the same (d). pressure decreases
- 19.** Acting force on a surface is: -  
(a). perpendicular to that surface (b). parallel to that surface  
(c). diagonal to that surface (d). linear to that surface

# DCA CLASSES

## Q01. Match the column: -

- (A). (a). force  
(b). pressure  
(c). friction  
(d). gravity  
(e). weight
- i) contact force  
ii) measure of gravity on object  
iii) force per unit area  
iv) push and pull  
v) action at a distance force

- (B). (a). Barometer  
(b). Movement of carom coins  
(c). Satellite orbiting earth  
(d). Attracting paper pins  
(e). Spring balance
- i) gravitational force  
ii) pressure  
iii) weight  
iv) impact force  
v) magnetic force

- (C). (a). contact force  
(b). non-contact force  
(c). weight  
(d). force  
(e). atmospheric pressure
- i) gravity  
ii) pressure x area  
iii) maximum at sea level  
iv) electrostatic  
v) friction

- (D). (a). lifting a school bag  
(b). closing a drawer  
(c). making a stationary football move  
(d). squeezing a sponge  
(e). pulling a rubber band
- i) kicking  
ii) shape changes  
iii) pulling  
iv) makes it longer  
v) pushing

- (E). (a). force  
(b). change in object  
(c). magnet pulling iron pins  
(d). pulling the window pane  
(e). bloating of tube of cycle tyre
- i) non-contact force  
ii) contact force  
iii) air pressure  
iv) effect  
v) cause

## Q02. Fill in the blanks: -

- (a). \_\_\_\_\_ is required to move things.  
(b). \_\_\_\_\_ can stop a moving object.  
(c). Moving object has its own force, due to its \_\_\_\_\_.  
(d). The \_\_\_\_\_ of an object is the measure of force of gravity produced on it.  
(e). To open a car door and get inside we must \_\_\_\_\_ the door.  
(f). Forces that work on an object at rest are \_\_\_\_\_.  
(g). \_\_\_\_\_ is used to exert force.  
(h). Force changes the \_\_\_\_\_ of an object in motion.  
(i). The invisible attraction force that earth exerts on all sorts of matter is called \_\_\_\_\_ forc(e).  
(j). \_\_\_\_\_ is defined as the force exerted per unit area.  
(k). Pressure depends on \_\_\_\_\_ over which the force is spread.  
(l). Pressure exerted by air is called as \_\_\_\_\_ pressure.  
(m). A \_\_\_\_\_ is used to measure the air pressure.

# DCA CLASSES

## **Q03. True or false: -**

- (a). The unit of force is Pascal.
- (b). Weight is measured in newton.
- (c). Pulling a cart needs direct contact with the object.
- (d). Direction in which an object is pushed or pulled is measure of magnitude of force.
- (e). Interaction between two objects always involve direct physical contact.
- (f). The relation between force, pressure and area says: force= pressure x area.
- (g). Force cannot make a moving object slow down.
- (h). Both water and air will apply equal force in all directions.
- (i). With the increasing depth, pressure of liquid decreases.
- (j). Weight is due to the earth's friction acting on an object.

## **Q04. Define resultant force?**

## **Q05. Describe weight and its cause?**

## **Q06. Why do astronauts appear floating inside a spaceship?**

## **Q07. What is necessary to apply force?**

## **Q08. What happens when more than one force works on an object and that to in opposite directions?**

## **Q09. What is meant by direction of a force?**

## **Q10. To slow down an object in which direction should be force applied?**

## **Q11. What are the applications of atmospheric pressure of earth?**

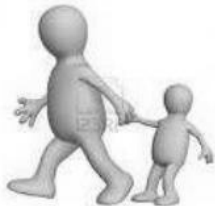
## **Q12. Describe the force due to which Earth keeps on revolving around the Sun.**

## **Q13. A force of 35 N acts over an area of 7 square meter. Calculate the pressure?**

## **Q14. Pick the odd word out of the following:**

gravitational, magnetic, muscular, electrostatic, comb rubbed on hair

## **Q15. Recognize which kind of force is imparted to the child in the following image?**



(a).



(b).

## **Q13. Write the correct words by putting letters in correct sequence-**

(a). car : fuel :: body : ?      (b). weight : Newton :: pressure : ?