



PHYSICS

BOOKS - JNAN PUBLICATION

PHYSICAL ENVIRONMENT (FORCE AND PRESSURE)

Example

1. Choose the correct one: A push or pull on an object is called as--

A. puch -pull

B. force

C. pressure

D. all of above

Answer:



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2. What is the case of change in motion or change in the state of motion?

A. pressure

B. friction

C. atmospheric

D. force

Answer:



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3. A ball rolling on the ground slows down and finally stops. It is because of

A. force

B. less force

C. friction

D. none of the above

Answer:



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4. Pressure is defined as

A. Area/force on which it acts

B. Force /Area on which it acts

C. Volume/Force on which it acts

D. Force/volume on which it acts

Answer:



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5. In a tug of war , two teams pulling a rope does not move towards any team it implies that-

A. An equal is being applied in the opposite direction

B. An equal force is being applied in the same direction,

C. No force is applied direction

D. Can not be explained

Answer:



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6. When two forces applied on an object are equal and opposite, then the forces.

A. May move the object

B. May stop a moving object

C. May move the object and also cause a change

D. Do not move the object but may cause a change in its shape

Answer:





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7. Friction produces--

A. light

B. alpha rays

C. heat

D. all of above

Answer:



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8. A liquid exerts pressure in directions

A. upward

B. downward

C. side wards

D. all

Answer:



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9. The air pressure on our body is equal to

A. Atmosphere pressure

B. sea bottom pressure

C. space pressure

D.

Answer:



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10. The SI unit of pressure is

A. N / m^3

B. N / m^2

C. kg / m^2

D. pa / m^2

Answer:



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11. The standard atmosphere pressure is

A. pressure of a mercury coloumn of height

76cm

B. mercury of 10 meter

C. pressure of 76 mm mecrury column

D.

Answer:



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12. The upward force exerted on a body by the fluid in which it is submerged is called the--

A. Immersion

B. buoyancy

C. weight

D.

Answer:



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13. one which of the following pressure of liquid does not depend

A. dependency over Liquid

B. upper surface area of liquid

C. density of liquid

D.

Answer:



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14. Density of saline water is --- than purified water.

A. more

B. less

C. same

D.

Answer:



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15. Density of mercury is---

A. low

B. very high

C. very low

D.

Answer:



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16. state whether True or False

Pressure of saline water is greather than purified water.



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17. State whether True or False:

Buoyancy is a kind of force.



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18. State whether True or False:

if the weight of an objective is greater than buoyancy of that object it gets immersed in water.



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19. state whether True or False

Pressure on any point of liquid is same.



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20. State whether True or False:

In SI system unit of pressure is Newton /
*meter*²



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21. state whether True or False

Density of kersons oil is less than desnity of
water.



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22. State whether True or False:

Buoyancy acts towards the weight of an object.



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23. state whether True or False

The syring works on a principle of atmospheric prussure.



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24. State whether True or False:

Newton's first law of motion is alternatively called as law of pressure.



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25. state whether True or False

Cutting and piercing tools have blunt edges.



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26. state whether True or False

Camel can not walk on sand due to its broad feet



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27. State whether True or False

Force of friction is greater in case of smooth surface than rough one.



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28. State whether True or False:

Fluids exert pressure.



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29. State whether True or False:

When an object remains stationary on a surface the object exerts downward force on the surface vertically.



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30. state whether True or False

Pressure and force discides the direction of flow of a liquid.



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31. Fill in the blanks

Force =mass of the object \times -----



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32. Fill in the blanks

SI unit of measuring force.....



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33. Fill in the blanks

When you hold a weight of 1 kg in your hand, the force that is applied on your hand is aroundNewton.



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34. Fill in the blanks

we can change the direction of a moving body
by applying



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35. Fill in the blanks

Litre is the unit of.....



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36. Fill in the blanks

Frictional force works against theof an object

A. shape

B. size

C. motion

D. mass

Answer:



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37. Fill in the blanks

In SI system unit of density is.....



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38. Fill in the blanks

Density of mercury =.....*gram / cubic*
centimeter.



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39. Fill in the blanks

Mass = Density \times -----.



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40. Fill in the blanks

The force per unit area applied to the surface of an object is known as-----.



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41. Fill in the blanks

The strenght of force is usually expressed bt
its.....

A. newton

B. kg

C. liter

D. meter

Answer:



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42. Fill in the blanks

Power is sprinkled on the carom board to reduce-----.

A. friction

B. velocity

C. mass

D. acceleration

Answer:



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43. Fill in the blanks

Sliding friction is-----than the static friction.

A. less

B. more

C. equal

D. can't say

Answer:



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44. Fill in the blanks

Friction depends upon -----of the surface.



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45. Fill in the blanks

Water and other liquid exerts -----when
objective move through them



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46. What is the SI unit of force?



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47. What is the unit of pressure?



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48. What is the rate of change of velocity called?



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49. What is unit of acceleration in CGS system?



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50. What is the CGS unit of pressure?



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51. What is the density?



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52. What is the SI unit of density?



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53. Gallon is the unit of which substance?

A. mass

B. force

C. liter

D. length

Answer:



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54. What is pressure?



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55. If same force is exerted on a substance and area increases then, will the pressure increase or decrease?



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56. Name the instrument which is used to measure liquid pressure?

Barometer

Thermometer

Conical Flask

Scale



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57. Is friction is same for all the surfaces?

YES

NO

Can't Say

None of These



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58. What is the weight of substance?



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59. Due to which acceleration a substance fall downwards?



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60. What is the SI unit of acceleration due to gravity?



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61. Force of friction is greater in case of rough surface or smooth surface?



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62. Give an example to show that friction produces heat?



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63. can we reduce friction to zero by using lubricants?

Yes

No

Can't Say

None of these



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64. Name the device used for measuring force acting on an object?





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65. Does acceleration due to gravity depend on mass?



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66. In which upthrust would be greater saliner water or pure water



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67. From which Newton's law we get a concept about action and reaction?



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68. What is the relation between force, mass and acceleration acting on an objective?



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69. What is the density of water in SI system?



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70. Whose unit is square meter?



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71. What is acceleration?



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72. What is SI unit of acceleration?



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73. Why vehicles slow down when breaks are applied?



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74. What is spring balance?



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75. What happens when the forces are applied on an object in the same direction?

Add

Subtract

Nothing Happens

None of These



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76. What is force?



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77. Define friction?



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78. What is frictional force?



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79. Define static friction?



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80. Define sliding friction?



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81. Write the formula of force per unit area in liquid?



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82. why kerosene oil floats on water?





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83. what is acceleration to gravity?



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84. State Pascal's law of fluid



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85. Can Pascal's law be applied on water of a pond?



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86. What is standard atmospheric pressure?



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87. With what gravitational force earth pulls towards its gravity a 7kg mass object?



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88. Define Buoyancy.



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89. Give some example to support the statement that ' friction is important for most of our day to day activities?



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90. Why sole of shoes are grooved?



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91. Mention Newton's first law of motion.



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92. Mention Newton's second law of motion.



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93. Mention Newton's third law of motion.



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94. Describe Archimede's principle.



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95. How will you proof that when an a object is immersed in water the objects had apparent loss of weight?





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96. What are factors that effect the upthrust?



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97. why the walls of dams at the base are made thicker?



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98. Define the term thrust and pressure. What is the relation between them?



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99. why ice floats on water?



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100. what are the different types of friction?



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101. Mass of an object is 5 gram and force of 10 dyne is exerted upon it . What amount of acceleration will be created to that object?



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102. Mass of an object is 2kg . What would its weight?



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103. Calculate the pressure at the bottom of a fresh water lake of depth 10 m. The atmospheric pressure = 76 cm of mercury and the density of mercury = $13.6g \cdot cm^{-3}$.



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104. If density of mercury is $13.6gm / cm^3$ then find the mass of 1 lit mercury?



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105. Find out the pressure of 10 cm deep water column.



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106. Find the value of standard atmospheric pressure of 76cm mercury column in SI unit.



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107. If water is kept instead of mercury in barometer then find out the height of water.



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108. A square plate of side 10 cm is placed horizontally 1 m below the surface of water.

The atmospheric pressure is

$1.013 \times 10^5 \text{ N} / \text{M}^2$. Calculate the total thrust

on the plate. (Density of water $d =$

$10^3 \text{ kg} / \text{m}^3, g = 9.8 \text{ m} / \text{s}^2$)



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