FORCE AND PRESSUI	RE				
<1M>					
1.The standard at	tmospheric pressur	e at sea level is -			
(A) 10x10 ⁻¹² N/m ²	(B) 1x10	0 ²³ N/m ²	(C) 10^{12} N/m ² (D) 10^5 N/m ²		
2.The effects of f	orce are:				
(A) Motion of an	object	(B) Change in the	magnitude of velocity of an object		
(C) Change in dire	ection of motion	(D) All of these			
3.Which among t	he following are th				
(A) Magnetic force	ce (B) Nuclear force	ce (C) Gravita	tional force (D) All of these		
. =					
4.Friction forces act					
	on of force applied		(B) In the direction of the motion		
(C) In the direction	on opposite to the o	lirection of motio	n (D) None of these		
The offect of fr	istianal force may b	a minimizad hu			
	ictional force may b		Heirana ann ath alama		
(A) Using a smoo			Using a smooth plane		
(C) Providing a lu	bricant at the surfa	ce of contact (D)	All of these		
6 Negative value	of force implies tha	at			
_	ed on some other o				
• •		•	ation		
	e direction opposite				
	same direction to		n		
(D) Gravitational fo	orce is acting on the	e object			
7.S.I. Unit of force	e is				
(A) Newton	(B) Dyne	(C) Kg-wt	(D) Kg		
	orce acts between				
(A) Sun and Planet		(B) Earth a	(B) Earth and Bodies		
(C) All the bodies in the universe		(D) Sun an	(D) Sun and Earth		

9. Which force can a	ct from a large distanc	e						
(A) Magnetic	(B) electrostatic	(C) Gravitatio	nal (D) A	All of these				
10.A car slips on a w	vet road because							
(A) Water increases	the friction between t	he road and the tyres						
(B) It is not possible to apply brakes on a wet road								
(C) The friction betw	ween the brakes shoes	and the wheels is red	uced					
(D) Water reduce the friction between the road and the tyres								
11.Friction force is								
(A) Contact force								
(C) Muscular force								
(5)	(5):10							
12.Friction can be re	educed by							
(A) Polishing	(B) Oiling	(C) By use the ball be	aring (D) A	All of these				
	-							
13.Two bodies in this universe attract each other by a force-								
(A) Contact force	(B) Gravitational force	ce (C) Muscular force (D) None of these						
14.The weight of the	e body is because of							
(A) Magnetic force	e (B) Electrostatic force (C) Gravitational force (D) none of these			D) none of these				
15.Any change in pr	essure on a confined g	as produced a change	in					
(A) Volume	(B) Force	(C) Temperature	(D) A	All of these				
16.A barometer is a	compact device for me	easuring-						
(A) Volume	(B) Height	(C) Pressure	(D) All of the	ese				
17.Atmospheric pre	ssure at sea level supp	ort a column of mercu	ıry-					
(A) 520 mm	(B) 25 mm	(C) 740 mm	(D) 760 mm					
18. What happens when a body leaves the Earth's gravitational field?								
(A) The body will no longer be pulled back to the earth.								

(B) Speed of body	decreases				
(C) Body fall on the	e Earth.				
D) None of these.					
19.Fill a glass with	water and cover it wit	h a coaster. In	vert the glass. W	hat happen?	
(A) Water will spill		(B) V	(B) Water will not spill		
(C) Some water wi	ll spill and some will no	ot (D) 1	None of these		
20.The S.I. unit of p	pressure				
(A) Pascal	(B) Newton	(C) Joule	(D) none of th	nese	
21.Gravitational fo	orce is a				
(A) Contact force		(B) Consequential force			
(C) Action at a distance force		(D) None of these			
22.Friction is					
(A) Always a disad	vantage				
(B) Always an adva	antage				
(C) Sometimes a d	isadvantage and some	times an adva	intage		
D) Neither an adva	ntage nor a disadvanta	ige			
23.Rocket have a s	pecial streamline body	in order to			
(A) Increase frictio	n (B) Reduce friction	(C) Make th	em attractive	(D) none of these	
24.Which force is o	contact force				
(A) Gravitational	(B) Magnetio	force (C) E	lectrostatic force	e (D) Frictional force	
25.Grooves in tyre	S				
(A) Increase frictio	n of the tyre with the	road.			
(B) Decrease friction	on of the tyre with the	road			
(C) Do not affect fr	riction of the tyre with	the road.			
D) Make the tyre lo	ook good.				
ac Burning of the	mataar in tha atmasah	oro is duo to			

(A) Electrostatic force (B) Magnetic force (C) Frictional force (D) Gravitational force 27.A stone falling from the roof of a house is an example of (A) Frictional Force (B) Magnetic Force (C) Gravitational Force (D) Electrostatic Force 28.If area of a contact is increased, then (A) Pressure increases (B) Pressure decreases (C) Pressure remain Constant (D) none of these 29. Muscular force is an example of (A) Contact force (B) Non-Contact force (C) Gravitational Force (D) None of these 30. Pressure is directly proportional to the (D) None of these (A) Area (B) Force Applied (C) a and b 31.A charged comb attract small pieces of paper due to (A) Frictional Force (B) Magnetic Force (C) Gravitational Force (D) Electrostatic Force 32. What happen when two force act in opposite direction on an object? 33. What is a force? 34. Define the push force with its effect. 35. Define pull force and write its effects. 36. Explain the term contact force? 37. Define Muscular Force? 38. What is the Friction? 39. Explain the term Non-contact Forces? 40. What is the Magnetic Force? 41. What is the Electrostatic Force?

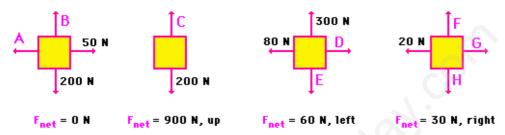
- 42. What happens when we press a rubber ball placed on a table?
- 43. How a force of friction arises?
- 44. Which device is used to measure the weight of a body?
- 45. Define the weight of a body. Also write its S.I. unit.
- 46. What are the effect of force?
- 47. What is the Gravitational Force?
- 48. What is the Pressure?
- 49. What is the Atmospheric Pressure?
- 50. Define the term Gravity?
- 51. How does a person move forward during swimming?
- 52. What happens when a force acts on an object? <
- 53. What do you mean by the force of friction? How can it be minimised?
- 54. Why does an empty can not cave in normally? <
- 55. Why is the moon's force of gravity less than that of the earth?
- 56. Mention three types of forces which can act from a distance.
- 57.fill the following situations Identify the agent exerting (he force;<nrl the ot^ect on which it acts. State the effect of the force in each case.
 (a) Squeezing a piece oflemon between the fingers tn extract its juice
 (b) Taking out paste from a toothpaste tube.
 (c) A load suspended from a spring while its other end is on a nook fixed, to a wall.
- (tj) An athlete making a high jump to clear the bar at a certain height.
- 58.A blacksmith hammers a hot piece of iron while making a loo!. How does the force due to hammering affect the piece of iron?
- 59. An inflated balloon was pressed against a wall after it has been rubbed with a piece of synthetic cloth. It was found that the balloon slicks to the. wall. What force might be responsible for the attraction between the balloon and the wall?
- 60. Name the forces acting on a plastic bucket containing water held above, ground level in your hand. Discuss why the forces acting on the bi icket do not bring a change in its state of motion.
- 61.A nx&et has been fired upwards to launch a satellite in its orbit. Name two forces acting on the rocket immediately after leaving the launching

62. When we pxen the bulb of a dropper with its nozzle kept in water, air in (be dropper to) «it to escape in the form of bubbles. Once we release the jiscessure on the bulb, water gets filled in the dropper. The rise of water in the dropper is due to $\{ E \}$ pressure of water. gravity of the earth. shape of rubber bulb. *HW

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63. Mention three disadvantages of friction between the parts of a machine. How does (a) oiling and (b) using ball bearings help reduce friction? <

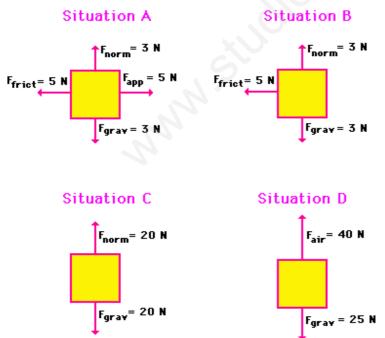
64. Free-body diagrams for four situations are shown below. The net force is known for each situation. However, the magnitudes of a few of the individual forces are not known.



Analyze each situation individually and determine the magnitude of the unknown forces.

65. Define the term net force.

Free-body diagrams for four situations are shown below.



For each situation, determine the net force acting upon the object.