## NATURAL SCIENCE: PHYSICS

1. It is the me	easure of the am	ount of matter i	n an object.				
a. weight	b. mass	c. volume	d. quantity				
Ans: b							
2. It is the dis	stance traveled b	ov the per unit in	a stated direction.				
a velocity	velocity h speed c acceleration d thrust						
Ans: b	bi opeca						
3. The rate of	f change of the d	listance traveled	per unit time in a stated direction				
a. velocity	b. speed	c. acceleratio	n d. thrust				
Ans: c							
4. This law st	ates that the for	ce acting upon a	n object is equal to the product of the mass and acceleration of the object.				
a. Newton's 2	2nd Law of Motio	on b. Ne	ewton's 3rd Law of Motion				
c. Newton's 1	1st Law of Motio	n d. En	d. Energy Law				
Ans: a							
5. When a fo	rce is applied to	a body, several e	effects are possible. Which of the ff. effect CAN'T occur?				
a. the body rotates		b. th	b. the body change direction				
c. the body increase its mass		d. th	d. the body changes shape				
Ans: c							
6. It is the rel b. fri	luctance of the o ction	bject to change c. inertia	either its state of rest or uniform motion in a straight line. a. force d. motion				
Ans: d							
7. This law st	ates that the ene	ergy cannot be c	reated nor destroyed but only changes from one form to another.				
a. Energy Law			b. Kinetic Theory of Matter				
c. Law of Con	servation of Ene	ergy d. Bo	yle's Law				
Ans: b							

8. This law states that all n	natter is made up of a	large number of molec	ules which are in continuous motion.						
a. Boyle's law	b. Kinet	b. Kinetic Theory of Matter							
c. Law of Conservation of	Energy d. Boyle	d. Boyle's Law							
Ans: b									
9. The lowest possible temperature that a substance can reach.									
a. freezing point b	. absolute zero	c. steam point	d. threshold						
Ans: b									
10. It is the amount of heat required to raise the temperature of 1 kg. of a substance by 1 degree C.									
a. calorie b. watt	c. specific heat o	capacity d. joul	e						
Ans: c									
11. The pressure cooker works under the principle that?									
a. Boiling point increases as pressure decreases b. boiling point decreases as pressure increases c. freezing point increases as pressure increases c. freezing point increases as pressure decreases									
increases as pressure incre	eases d. freezing p	b. boiling point point increases as press	t decreases as pressure increases c. freezing point ure decreases						
increases as pressure incre Ans: a	eases d. freezing p	b. boiling poin point increases as press	t decreases as pressure increases c. freezing point ure decreases						
Ans: a	eases d. freezing p	b. boiling poin point increases as press	t decreases as pressure increases c. freezing point ure decreases						
Ans: a 12. It is the process by whi heated particles.	ich heat is transmitted	b. boiling poin point increases as press I through a substance fr	t decreases as pressure increases c. freezing point ure decreases rom one particle to another by the amount of						
<ul> <li>a. convection</li> <li>b. boining point increases as pressure increases as pres</li></ul>	ich heat is transmitted	b. boiling poin point increases as press I through a substance fr c. conduction	t decreases as pressure increases c. freezing point ure decreases rom one particle to another by the amount of d. radiation						
<ul> <li>a. convection</li> <li>b. Ans: c</li> </ul>	ich heat is transmitted	b. boiling poin point increases as press I through a substance fr c. conduction	t decreases as pressure increases c. freezing point ure decreases rom one particle to another by the amount of d. radiation						
<ul> <li>a. convection</li> <li>b. Ans: c</li> </ul>	ich heat is transmitted	b. boiling poin point increases as press I through a substance fr c. conduction	t decreases as pressure increases c. freezing point ure decreases rom one particle to another by the amount of d. radiation						
<ul> <li>a. boining point increases as pressure increases as pressure increases as pressure increases at the process by whith heated particles.</li> <li>a. convection b.</li> <li>Ans: c</li> <li>13. It is phenomena in whith the process by a second particles by a second particles.</li> </ul>	ich heat is transmitted insulation	b. boiling poin point increases as press I through a substance fr c. conduction through vibrations.	t decreases as pressure increases c. freezing point ure decreases rom one particle to another by the amount of d. radiation						
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<ul> <li>a. boining point increases as pressure increases at the process by whith heated particles.</li> <li>a. the process by whith heated particles.</li> <li>a. convection b.</li> <li>Ans: c</li> <li>13. It is phenomena in whith a. frequency b.</li> <li>Ans: b</li> <li>14. The unit measurement</li> </ul>	ich heat is transmitted insulation ich energy transferred waves c. refrac	b. boiling point point increases as press I through a substance fr c. conduction through vibrations. tion d. amplitude	t decreases as pressure increases c. freezing point ure decreases rom one particle to another by the amount of d. radiation						
<ul> <li>a. boining point increases as pressure increases as press</li></ul>	ich heat is transmitted insulation ich energy transferred waves c. refrac t for intensity of sound decibel c. angst	b. boiling point point increases as press I through a substance fr c. conduction through vibrations. ction d. amplitude	t decreases as pressure increases c. freezing point ure decreases rom one particle to another by the amount of d. radiation						

15. It is the process by which a heavy nucleus of an atom is split into 2 or more fragments of comparable sizes when its nucleus is struck by a neutron.

a. chain reaction b. nuclear fusion c. radiation d. nuclear fission

Ans: d

16. It is the union of two light nuclei to form a heavier nucleus, resulting in a mass defect and release of energy

a. radiation b. nuclear fission c. nuclear fusion d. radioactivity Ans: c

17. Which of the following statements is a characteristic of an electronic spectrum?

a. they all travel at the same speed in free space

b. they exhibit diffraction and interference phenomena

c. they follow the laws of refraction and reflection

d. All of the above

Ans: d

18. The term "RADAR" is derived from the phase?

a. Radio Detection and Ranging b. Radio Diffusion and Ranging

c. Radio Diffraction and Resolution d. Radiation Diffraction and Resolution

Ans: a

19. A material whose ability to conduct electricity lies between those of conductors and insulators

a. integrated circuits b. silicon chips c. semiconductors d. insulators

Ans: c

20. "LASER" is derived from the phase?

a. Light Amplification by Stimulated Emission of Radiation

b. Light Application by Simulated Emission of Radiation

c. Light Amplification by Simulated Ejection of Radiation

d. None of the above

Ans: a

21. What is the color of a transp	arent substance	?							
a. the color of the light it absorb	b. the c	b. the color of the light it reflects							
c. the color of the light it transm	nits d. the c	color of the light	: it						
Ans: c									
22. What is a rotating electroma	agnetic called?								
a. Motor b. Rotor	c. Phasor	d. Sensor							
Ans: b									
23. What happens with the centripetal force when speed is doubled?									
a. remains the same	b. force is increa	ased 4x	c. triples	d. doubles					
Ans: d									
24. What is an electrochemical of	cell in which the	reacting materia	als can be renew	ed by the use of reverse current?					
a. storage cell b. prima	ary cell	c. fuel cell	d. chemical cell						
Ans: a									
25. What will make an object m	ove in a circular	path?							
a. central force b. gravit	tational force	c. friction force	d. elect	romagnetic force					
Ans: a									
26 What kind of anorray is proce	ant whon over a k	advicata dicta	neo from the gra						
20. What kind of energy is prese	h olocti	ric potential end		unu :					
a. elastic potential energy	b. electi	d. gravitational notential energy							
Ans: d			arenergy						
27 The process which occurs w	hen heat nasses	from one molec	cule to another m	olecule					
a. convection b. radiation	c. conduction	d. expansion							
Ans: c									
28. The temperature at which g	as would no long	ger exert pressu	re.						
a. Kelvin Temperature	b. Celsius Temp	perature	c. Absolute Zero	d. Boiling Point					

## Ans: c

29. The formula for finding the efficiency of a machine.
a. efficiency = input force/output force x 100%
b. efficiency = output force/ input force x 100%
c. efficiency = output work / input work x 100%
d. efficiency = input work/ output work x 100%
Ans: c

30. The amount of calories required to convert 50g. of ice at 0 degrees to water at 60 degrees.

a. 3000 calories b. 4000 calories c. 7000 calories d. 6840 calories

Ans: c

31. When both are dropped, a 5 lb. ball and a 10 lb. ball will reach the ground at the same time because?

a. the gravitational attraction is the same on both

b. both have the same inertia

c. the inertial resistance of the lighter ball is greater than that of the heavier ball

d. the greater gravitational force of the 10 lb. ball is offset by its' greater inertial resistance.

Ans: d

32. The result when there is lack of cohesion among gas molecules.

a. gas molecules are confined and kept together b. molecules move freely in all directions

c. molecules are compressed into smaller volumes d. opposing force come into play

Ans: b

33. At what temperature does water have the smallest volume and greatest density?
a. 0 degrees C
b. 2 degrees C
c. 4 degrees C
d. 16 degrees C
Ans: c

34. What single force, when applied at the same point, will produce the same effect?a. resultant forceb. composite forcec. concurrent forced. nuclear forceAns: a

- 35. Energy can be released by atomic fusion when?
- a. the atoms fused have a mutual attraction b. the atoms fused have a mutual repulsion
- c. the atom formed is fissionable
- d. the nuclear mass of the atom is less than the combined mass of the atoms fused

Ans: d