## GREENLAWNS HIGH SCHOOL TERMINAL EXAMINATION 2020

Subject: Physics Standard: X Paper)	Marks: 20 Time: 2 Hours (Including Subjective
* Required	
* This form will record your name, please fill your name.	
1. Name: *	
2. Roll No. *	
3. Which of the following statements is false? * (1 Point)	
The centre of gravity of a body must be as low as poss	ible to achieve stable equilibrium.
The position of the centre of gravity of a body of given deformed.	n mass changes if the body is
The centre of gravity always be within the material of t	he body.
At the centre of gravity the algebraic sum of moments constituting the body is zero.	of weights of all the particles

4	.The direction of rotation of a body can be changed * (1 Point)
	Neither by changing the point of application of force nor by changing the direction of force.
	Only by changing the direction of force.
	Both ,by changing the point of application of force and by changing the direction of force.
	Only by changing the point of application of force.
5	is not a unit of energy. * (1 Point)
	kilowatt hour.
	Calorie.
	C Electron volt.
	O watt.
6	. A microphone converts into * (1 Point)
	Electrical energy into sound energy.
	Sound energy into electrical energy.
	Chemical energy into sound energy.
	O Sound energy into Chemical energy.

(1 Point)
○ M.A. = 0
○ M.A. = 1
○ M.A. < 1
○ M.A. > 1
8. The mechanical advantage of a lever can be increased by * (1 Point)
Both of these.
O Decreasing its effort arm.
None of these.
Increasing its effort arm.
9. When a ray of light travels from a water to air it * (1 Point)
bends away from the normal.
passes undeviated.
obends towards the normal.
None of these.

10. A ray of light suffers refraction through an equilateral prism. The deviation produced by the prism does not depend on the, * (1 Point)
Colour of the light used.
Angle of incidence.
Angle of a prism.
Size of a prism.
11. Choose the correct statement: * (1 Point)
The critical angle for a given pair of media decreases with the increase in wavelength of light.
None of these.
The critical angle for a given pair of media increases with the decrease in wavelength of light.
The critical angle for a given pair of media increases with the increase in wavelength of light.
12 of a thin lens is the point on the principal axis of a lens such that a ray of light directed towards it, passes undeviated through it. * (1 Point)
Centre of curvature.
Principal Focus 1.
Optical Centre.
Principal Focus 2.

<ol> <li>For the object placed at focus of a convex lens, the image is: *         (1 Point)     </li> </ol>	
Real and Diminished.	
Virtual and magnified.	
Virtual and Diminished.	
Real and magnified.	
14. On increasing the focal length of a lens, its power: * (1 Point)	
O Decreases.	
O Does not change.	
First decreases then increases.	
○ Increases.	
15. When a ray of white light falls on a prism the dispersion of white light occurs  (1 Point)	
Only at the second surface of a prism.	
None of these.	
On both the surfaces.	
Only at the first surface of a prism.	

16. An electric arc- lamp is a source of * (1 Point)
○ Visible light.
Gamma radiations.
Infra-red radiations.
Ultraviolet radiations.
17. The quantity of heat energy absorbed to increase the temperature of a bod depends on * (1 Point)
the material of the body.
the mass of the body.
the increase in temperature of the body.
All of these.
18. Choose the correct expression: * (1 Point)
$\bigcirc C' = \frac{c}{m}$
$\bigcirc m = C' \times c$
$\bigcirc c = \frac{C'}{m}$
$\bigcirc c = C' \times m$

19. At high altitudes, water boils at * (1 Point)
O temperature lower than $100^{\circ}$ C.
○ 100° C.
$\bigcirc$ temperature higher than $100^{\circ}$ C.
$\bigcirc$ 0° $C$ .
20. Isotopes are * (1 Point)
the atoms of same element, having same atomic number but different mass number.
the atoms having different number of protons but same number of neutrons.
the atoms of different elements which have the same mass number, but different atom number.
the atoms of same element, having different atomic number but same mass number.
21. Which of the following substances is not an internal source of back-ground radiation? * (1 Point)
O Radon -222.
O Potassium -40.
Carbon -14.
○ Radium.

22	. Choose the incorrect statement: * (1 Point)
	Alpha particles produces X-rays when they are stopped by tungsten.
	Alpha particle, Beta particle and gamma radiations, all affect a photographic plate.
	Beta particle causes fluorescence on striking a fluorescent material.
	Gamma radiations are diffracted by crystals.