FORM 1 END TERM 2 2020 PHYSICS

1. a)	Explain briefly the first aid measure that should be taken incase of(2mk) Cut
b)	Poisoning
2.	Define physics.(2mk)
3.	State any five branches of physics(5mk)
4.	State any five career opportunity in physics (5mk)
5.	State any five laboratory safety rules (5mk)
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6.	Name any 4 items contained in the first Aid kit fo	und in the laboratory(4mk)				
7.	Briefly explain how physics is related to biology(2	mk)				
8.	State any three effects of a force (3mk)					
9.	Describe the method you would use to measure and a meter rule(4mk)	the cicrumfrence of a cylinder using a thread				
10.	O. A sphere of diameter 3.0 cm is mounted into a thin uniform wire of diameter 0.2mm calculate the length of the wire in meters(4mk)					
11.	11. State any three differences between mass and weight(3mk) mass weight					
- -	I. II.					
12.	12. The mass of 25cm ³ of ivory was found to be 0.045kg. Calaculate the density of ivory in SI units					

12. The mass of 25cm³ of ivory was found to be 0.045kg. Calaculate the density of ivory in SI units (3mk)

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13.	300 cm ³ of fresh water of density 1000kg/m ³ is mixed with 100cm ³ of sea water density 1030kg/m ³ .calculate the density of mixture (4mk)
14.	Explain how you would measure the volume of irregularly shaped object using the displacement method. (3mk)
15.	Distinguish between a fundamental and derived quantity giving an example of each (4mk)
16.	Define force and state its SI unit (2mk)
17.	State any 4 types of force (4mk)
18.	Distinguish between a scalar and vector quantity giving an example of each (4mk)
19.	State any 3 applications of capillary action (3mk)
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20.	20. State any two factors affecting the surface tension (2mk)							
21.	21. A man has a mass of 70kg. Calculate							
a)) His weight on earth where the gravitational strength is 10 N/kg (2mk)							
b)	His weight on moon where the gravitational strength is 1.7 N/kg (2mk)							
22. Explain briefly why water wets the glass while mercury does not(2mk)								
23.	Complete the	table below(7mk)						
		Fundermental quality	SI UNIT	SYMBOL				
	1	Tundermental quanty	meter	M				
	2	Mass	IIICCCI	kg				
	3	Time		Ng .				
	4	Time		^				
	5		Kelvin	A K				
		etween cohesive and adhesive	e forces (2mk)					

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6. Explain briefly why a razor blade floats in water and when soap solution is carefully added to the water it sinks (3mk)				
 27. Explain the following behavior of molecules. a) When it is raining it is advisable not to touch a canvas tent from inside (2mk) b) Water rises up in harrow tubes but Mercury which is also a liquid falls in a narrow tube to level below the outside surface ?(2mk) 	es			
28. A eureka can of mass 100g and cross-sectional area 100cm ² is filled with water of density 1g/cm ³ . A piece of metal of mass 20g and density 8g/cm ³ is lowered carefully into the can as shown				
10cm				
Calculate				
a) The total mass of water and Eureka can before the metal was lowered (3mk)				
b) The volume of water that overflowed (2mk)				
c) The final mass Eureka can and its content (3mk)				
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