

## FORM 1 END TERM 2 2020

### PHYSICS

1. Explain briefly the first aid measure that should be taken in case of (2mk)

a) Cut

b) Poisoning

2. Define physics. (2mk)

3. State any five branches of physics (5mk)

4. State any five career opportunities in physics (5mk)

5. State any five laboratory safety rules (5mk)

6. Name any 4 items contained in the first Aid kit found in the laboratory(4mk)
7. Briefly explain how physics is related to biology(2mk)
8. State any three effects of a force (3mk)
9. Describe the method you would use to measure the circumference of a cylinder using a thread and a meter rule(4mk)
10. 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. State any three differences between mass and weight(3mk)

mass	weight
I.	
II.	
III.	

12. The mass of  $25\text{cm}^3$  of ivory was found to be 0.045kg. Calculate the density of ivory in SI units (3mk)

13.  $300 \text{ cm}^3$  of fresh water of density  $1000 \text{ kg/m}^3$  is mixed with  $100 \text{ cm}^3$  of sea water density  $1030 \text{ kg/m}^3$ . 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)

20. State any two factors affecting the surface tension (2mk)

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		meter	M
2	Mass		kg
3	Time		
4			A
5		Kelvin	K

24. Differentiate between cohesive and adhesive forces (2mk)

25. A body weighs 400N in water. If the up thrust force is 20N.calculate its weight in air (2mk)

