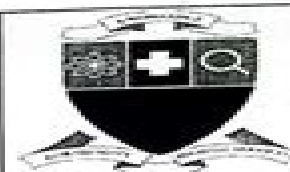


**SEFAKO MAKGATHO HEALTH
SCIENCES UNIVERSITY**
DEPARTMENT OF PHYSICS



| | |
|-----------------|--------------------------------|
| MODULE | CLASSICAL MECHANICS MPHA021 |
| RE-TEST | 1 |
| MARKS | 75 |
| TIME (Duration) | 2 HOURS |
| DATE | 07 APRIL 2022 |
| EXAMINER | MR LT SELEPE |

Question 1

1.1. In terms of the standard basis set $\{i, j, k\}$, $a = 3i - 5j - 7k$, $b = 2i + 4j + 6k$ and $c = 1i - 3j + 5k$

(i) Find $|a - b|^2$ (4)

(ii) Find $a \times b$, $b \times c$ and $(a \times b) \times (b \times c)$ (9)

1.2. If $v = 2i - j + 2k$ and $a = 4i - 3k$,
find the component of v in the direction of a .

(5)

1.3. A particle P moves along the x -axis with its displacement at time t given by $x = 6t^2 - t^3 + 1$, where x is measured in metres and t in seconds. Find the velocity and acceleration of P at time t . Find the times at which P is at rest and find its position at these times.

(8)

Question 2

2.1. Consider a box of mass m sliding down a ramp of mass M (Fig. 1). The wedge moves without friction on the horizontal plane. The box also slides without friction on the wedge. Find the acceleration of the box and the wedge using Lagrange's equations.

2013 Mechanics Past Paper

Terry C. Jones



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