

5th Semester Mathematics (Honours)

Assignment, Paper - DSE-1

Total Mark - 20

1) PQIRSTU is a regular hexagon of side 'a' and at P forces act, represented in magnitude and direction by \overline{PQ} , $2\overline{PR}$, $3\overline{PS}$, $4\overline{PT}$, $5\overline{PU}$.

Find the magnitude of the resultant. [5]

2) A string of length 'a', forms the shorter diagonal of a rhombus formed of four uniform rods, each of length 'b' and weight W, which are hinged together. If one of the rods be supported in a horizontal position, find the tension of the string in simplified form. [5]

3) Write a short note on ~~Geo~~ Geo-Stationary Satellites. (Use your own words as much as possible). [5]

4) Discuss analytically the simple harmonic motion (SHM). [5]

Submit latest by 23rd July '2021