

Q. 5) b) Verify Stokes's theorem for  $\vec{F} = 4xz\vec{i} - y^2\vec{j} + yz\vec{k}$  (7)  
over the area in the plane  $z=0$ , bounded by  
 $x=0$ ,  $y=0$ ,  $x^2+y^2=1$ .

c) Reduce to normal form and find rank of A (7)

$$A = \begin{bmatrix} 3 & 2 & 5 & 7 & 12 \\ 1 & 1 & 2 & 3 & 5 \\ 3 & 3 & 6 & 9 & 15 \end{bmatrix}.$$

Q. 6) a) Find values of  $\lambda$  and  $\mu$  so that equations (6)  
 $x+y+z=6$ ,  $x+2y+3z=10$ ,  $x+2y+\lambda z=\mu$   
have i) no solution. ii) unique solution iii) infinitely  
many solutions.

b) Verify Green's th<sup>m</sup> for  $\int \frac{1}{y} dx + \frac{1}{x} dy$  where (9)

'C' is boundary of the region given by  
 $x=1$ ,  $x=4$ ,  $y=1$ ,  $y=\sqrt{x}$

c) If  $A = \begin{bmatrix} 1 & 0 & 0 \\ 1 & 0 & 1 \\ 0 & 1 & 0 \end{bmatrix}$  Find  $A^{50}$ . (6)

Q. 7) a) Two lines of regression are given by (6)  
 $6y=5x+90$ ,  $15x=8y+130$ ,  $\sigma_x^2=16$

Find i)  $\bar{x}$ ,  $\bar{y}$  ii) Correlation coefficient  $r$ .

iii)  $\sigma_y^2$ .

# Engineering Mathematics4 Question Paper

**Guillaume Favre**



## **Engineering Mathematics4 Question Paper:**

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