## Mathematics & Statistics 2 - September 2009

- (b) Attempt any ONE of the following:
- (i) Evaluate  $\int_{0}^{1} x^{2} (1-x)^{\frac{3}{2}} dx$  (3)
- (ii) Evaluate:  $\int_{0}^{\frac{\pi}{2}} \frac{\sin 2x}{2 + 2\sin^2 x + \cos^2 x} dx$  (3)
- (B) Attempt any ONE of the following:
  - (i) Evaluate:  $\int \frac{\sec^2 (\log x)}{x} dx$  (2)
- (ii) Evaluate:  $\int \frac{dx}{1 + \cos 2x}$  (2)
- Q. 4 (A) (a) Attempt any TWO of the following:
  - (i) Differentiate  $\sin^{-1}\left(\frac{2x}{1+x^2}\right)$  w.r.t.  $\cos^{-1}\left(\frac{1-x^2}{1+x^2}\right)$  (3)
  - (ii) If  $y = e^{m \cdot \tan^{-1} x}$  then show that,  $(1 + x^2) \frac{d^2 y}{dx^2} + (2x - m) \frac{dy}{dx} = 0$ (3)
  - (iii) Find approximately  $\sin 31^\circ$ , given that  $1^\circ = 0.0175^\circ$  and  $\cos 30^\circ = 0.8660$  (3) (B) Attempt any ONE of the following:
- (i) Divide 20 into two parts so that their product is maximum. (2)
  - (ii) If  $x = \cos(xy)$ , find  $\frac{dy}{dx}$ . (2)
- Q. 5 (A) Attempt any ONE of the following: [8]
  - (i) Evaluate:  $\lim_{x \to \frac{\pi}{4}} \frac{1 \tan x}{\pi 4x}$  (3)
  - (ii) Evaluate:  $\lim_{x \to e} \frac{\log x 1}{x e}$  (3)
  - (iii) Find the value of 'k',
    - if the function  $f(x) = \frac{1 \cos kx}{x + \sin x}$ , for  $x \neq 0$ = 2 , for x = 0 (3)
- is continuous at x = 0.

  (B) Attempt any ONE of the following:
  - (i) If B is a Boolean algebra and x e B, then show that x + x = x (2)
    - (ii) Draw the switching circuit of the Boolean expression: [a · b · (c + d)] + [a · (b + c)] (2)

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**Guillaume Favre** 

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