

- N.B. :** (1) All questions are compulsory.  
 (2) Figures to right indicate full marks.

1. Solve the following :-

10

- (a) State Sandwich theorem of limits and hence evaluate  $\lim_{x \rightarrow 0} \frac{1 - \cos x}{x^2}$ .
- (b) Define continuity of the function of two variables. Examine the continuity of  $f(x, y)$  at  $(1, 2)$

$$f(x, y) = \begin{cases} \frac{x^2 - 4y^2}{x - 2y} & \text{if } x \neq 2y \\ 3 & \text{otherwise.} \end{cases}$$

2. Attempt any three :-

15

- (a) Draw graph of flooring function by defining it.
- (b) Show that  $\lim_{x \rightarrow 0} \frac{1}{x^4}$  does not exist.
- (c) Show that  $\lim_{x \rightarrow 2} f(x)$  does not exist at  $x = 2$ .

$$f(x) = \begin{cases} 3 - x & \text{if } x \leq 2 \\ \frac{x}{2} + 1 & \text{if } x > 2. \end{cases}$$

- (d) Discuss continuity of function  $f(x)$  on  $\mathbb{R}$  where  $f(x) = x^3 + x^2 - 2x + 1$ .

3. Attempt any three :-

15

- (a) Show that if  $f: I \rightarrow \mathbb{R}$ , where  $I$  is open interval in  $\mathbb{R}$ , is differentiable at point  $p$  in  $\mathbb{R}$  then  $f$  is continuous. Is converse true? Justify.
- (b) Check the differentiability of  $f(x)$  at  $x = 4$ .

$$f(x) = \begin{cases} x + 8 & \text{if } x \geq 4 \\ 3x + 2 & \text{if } x < 4. \end{cases}$$

- (c) If  $y = \tan^{-1}x$  then prove that  $(1 + x^2)y_2 + 2xy_1 = 0$ .
- (d) Find tangent and normal to the curve  $x^2 + xy - y^2 = 1$  at the point  $(2, 3)$ .

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**Tao Wei**



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