

Name of Course	: CBCS(LOCF) B.Sc. (H) Mathematics
Unique Paper Code	: 32351501
Name of Paper	: BMATH511-Metric Spaces
Semester	: V
Duration	: 3 hours
Maximum Marks	: 75 Marks

Attempt any four questions. All questions carry equal marks.

1. Let  $X = C[0, 2]$ , the space of all continuous functions defined on  $[0, 2]$ . Let

$$d_1(f, g) = \int_0^2 |f(x) - g(x)| dx \text{ and } d_\infty(f, g) = \sup\{|f(x) - g(x)| : x \in [0, 2]\}.$$

Compute the distance  $d_1(f, g)$  and  $d_\infty(f, g)$  where

$$f(x) = \begin{cases} \sin x & : 0 \leq x < \frac{\pi}{4} \\ \frac{1}{\sqrt{2}} & : \frac{\pi}{4} \leq x \leq 2 \end{cases} \text{ and } g(x) = \begin{cases} \cos x & : 0 \leq x < \frac{\pi}{4} \\ \frac{1}{\sqrt{2}} & : \frac{\pi}{4} \leq x \leq 2 \end{cases}.$$

Let  $X$  be any non-empty subset of  $\mathbb{R}$ . Define a function  $d : X \times X \rightarrow [0, \infty)$  as

$$d(x, y) = \begin{cases} |x - y|, & \text{if } |x - y| \leq 1 \\ 1, & \text{if } |x - y| \geq 1 \end{cases}$$

Show that  $d$  is a metric on  $X$  and  $d$  is bounded.

Let  $X = \mathbb{R}^3$  and  $d$  be the metric on  $\mathbb{R}^3$  given by  $d(x, y) = \sum_{i=1}^3 |x_i - y_i|$  where

$x = (x_1, x_2, x_3)$  and  $y = (y_1, y_2, y_3)$ . Let  $\{x^{(n)}\}$  be a sequence in  $\mathbb{R}^3$  where

$$x^{(n)} = \left( \frac{n}{n+1}, \frac{1}{n^2}, 1 - \frac{1}{n} \right), n \in \mathbb{N}. \text{ Is } \{x^{(n)}\} \text{ convergent in } \mathbb{R}^3? \text{ If yes, find the limit.}$$

Is  $d(x, y) = |x - y|^3$  a metric on  $\mathbb{R}$ ? Justify your answer.

(6+6.75+4+2)

2. Let  $a, b \in \mathbb{R}$  and  $a < b$ . Show that the open interval  $(a, b)$  is an incomplete subspace of  $\mathbb{R}$ . Let  $Y$  be a finite subset of  $\mathbb{R}$  with usual metric. Is  $Y$  open in  $\mathbb{R}$ ? Justify. If not, then give an example of a metric space in which a finite set may be open.

Let  $(C[0, 1], d_1)$  be a metric space with the metric defined by

$$d_1(f, g) = \int_0^1 |f(x) - g(x)| dx.$$

Let  $\{h_n\}$  be a sequence in  $C[0, 1]$  defined by

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