

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

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