



UNIVERSITY OF GHANA

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BSc/BA, SECOND SEMESTER EXAMINATIONS: 2022/2023

DEPARTMENT OF MATHEMATICS

MATH 356: ANALYSIS II (3 credits)

INSTRUCTION:

ANSWER ANY 3 OUT OF THE FOLLOWING 5 QUESTIONS

TIME ALLOWED:

TWO HOURS (2 hours)

-
1. (a) Let $\{f_n\}_{n \in \mathbb{N}}$ be a sequence of functions in $\mathcal{B}[a, b]$. Prove that $\{f_n\}_{n \in \mathbb{N}}$ converges uniformly if and only if $\{f_n\}_{n \in \mathbb{N}}$ is a Cauchy sequence. [25 Marks]
- (b) Let $\{f_n\}_{n \in \mathbb{N}}$ be a sequence of real-valued functions. Prove that $\{f_n\}_{n \in \mathbb{N}}$ converges pointwise if and only if to every $x \in [a, b]$ and to every $\varepsilon > 0$, there is a number $n_0 \in \mathbb{N}$ such that $|f_n(x) - f_m(x)| < \varepsilon$, for all $m, n \geq n_0$. [25 Marks]
2. (a) Let $f_n(x) = x^n e^{-nx}$, $x \in [0, \infty)$ and $n \in \mathbb{N}$.
- (i) Guess the pointwise limit of $\{f_n\}$ and prove your claim. [10 Marks]
- (ii) Decide whether or not the convergence in (i) is uniform. [10 Marks]
- (b) Show that $G(x) = \sum_{n=0}^{\infty} x^n e^{-nx}$ is continuous on $[0, \infty)$ [20 Marks]
- (c) Let $\underline{x} \in \mathbb{R}^n$. Show that the Cauchy-Schwarz inequality for sums implies

$$\left(|x_1| + |x_2| + \dots + |x_n|\right)^2 \leq n \left(|x_1|^2 + |x_2|^2 + \dots + |x_n|^2\right).$$

[10 Marks]

3. (a) Find the Maclaurin series for $\ln(1+x)$ and hence that for $\ln\left(\frac{1+x}{1-x}\right)$ in closed form. [20 Marks]
- (b) Find the exact value of

$$\sum_{n=1}^{\infty} \frac{2^{1-2n}}{(2n-1)!}.$$

Hint: Use (a) above.

[15 Marks]

- (c) If the function $\ln(1+x)$ is to be approximated by the first three terms of it's Maclaurin series, estimate the maximum value of x when the error in the approximation is 4. [15Marks]

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