Name	ID	Sr

Instruction: choose the correct answer

Q1) The series

$$\sum_{n=1}^{\infty} \frac{(-1)^{n-1}}{4^n + n^4}$$

a) is absolutely convergent.

b) is conditionally convergent

c) convergent by the integral test

d) divergent by the integral test

e) divergent by the Limit comparison test

Q2) The series

$$\sum_{k=2}^{\infty} \frac{k \ln k}{(k + 4)^3}$$

a) is convergent by the Ratio test.

b) is a convergent alternating series.

c) is divergent by the integral test

d) is convergent by the comparison test.

e) is divergent by the Limit comparison test

Q3) The series

$$\sum_{n=1}^{\infty} n^{-p^3 + 124}$$

is convergent if p belongs to

a) $(-\infty, -5)$

b) $(-\infty, -124)$

c) $(-124, 0)$

d) $(-\infty, 1)$

e) $(5, \infty)$

Q4) The series

$$\sum_{n=1}^{\infty} (-1)^n \frac{1 \cdot 4 \cdot 7 \cdots (3n-2)}{5^n \, n!}$$

a) is absolutely convergent.

b) is divergent by the Ratio Test.

c) is conditionally convergent.

d) is divergent by the root test

e) is convergent by the comparison test.