CC 08 3RD INTERNAL  ANSWER ALL THE FOLLOWING QUESTIONS
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- 1. The series  $\sum \frac{(-1)^{n-1}}{n\sqrt{n}}$  is
- a) convergent but not absolutely convergent
- b) not convergent
- c) convergent and absolutely convergent
- d) none of these
- ( ) a
- O c
- - 2. For the series  $\sum_{n=1}^{\infty} \frac{n^5+1}{n^7+3} \left(\frac{x}{3}\right)^n$ , which statement is correct?
  - a) The series convergent absolutely but not uniformly on [-3,3]
  - b) The series convergent uniformly but not absolutely on [-3,3]
  - c) The series convergent uniformly and absolutely on [-3,3]
  - d) none of these
- O a
- O b
- O c
- $\bigcirc$  d



- 3. The series  $\frac{1}{(1+a)^p} \frac{1}{(2+a)^p} + \frac{1}{(3+a)^p} \cdots$ ; a > 0 is
- a) absolutely convergent if p > 1, conditionally convergent if 0
- b) absolutely convergent if 0 , conditionally convergent if <math>p > 1
- c) absolutely convergent if  $p \ge 1$ , conditionally convergent if 0
- d) none of these.
- O a
- $\bigcirc$  t
- O 0
- $\bigcirc$  d

- 4) Which statement is incorrect?
- a) every continuous function is integrable
- b) every integrable function is continuous
- c) every monotone function is integrable
- d) every continuous function has a primitive
- a
- O b
- O c
- $\bigcirc$  d



- 5) Consider the function  $f(x) = \begin{cases} \sqrt{1 x^2}, when \ x \ is \ rational \\ 1 x \ , when \ x \ is \ irrational \end{cases}$  then the value of  $\int_{0}^{1} f(x) dx$  is
- b)  $\frac{\pi}{2}$  c)  $\frac{\pi}{4}$

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