KFUPM – Department of Mathematics and Statistics – Term 112

MATH 102

QUIZ5 # Code 1 (Duration = 20 minutes)

NAME:_____ ID:_____ Section: _____

Exercise 1 (5 points)

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

Conditionally convergent	
Absolutely divergent	
Divergent	
Absolutely Convergent	
Divergent by AST	

Exercise 2 (5points). The values of p for which the series $\sum_{n=2}^{\infty}\frac{1}{n(\ln n)^{p-1}}$ is convergent are:

$p \geq 2$	
$p \geq 1$	
$p \leq 2$	
$p \leq 1$	
$p \geq 3$	

KFUPM – Department of Mathematics and Statistics – Term 112

MATH 102

QUIZ # 5 Code 2 (Duration = 20 minutes)

NAME:_____ ID:_____ Section: _____

Exercise 1 (5 points) The series $\sum_{n=1}^{\infty}(-1)^n \frac{(n!)^3}{(3n)!}$ is

Conditionally convergent	
Absolutely divergent	
Divergent	
Absolutely Convergent	
Divergent by AST	

Exercise 2 (5 points)

The values of p for which the series $\sum_{n=1}^{\infty}\frac{e^n}{(1+e^n)^{p-1}}$ is convergent are:

$p \geq 2$	
$p \geq 1$	
$p \leq 2$	
$p \leq 1$	
$p \geq 3$	