Name:	ID:	<u>Sec</u> : 10
	Term-142 Class-QUIZ-on-Series	
(show all your work and circle o	one letter to get a full mark or you will get zero)	
1)The series $\sum_{n=1}^{\infty} \frac{(-n!)^4}{(4n+12)!}$ is	4)The series $\sum_{n=1}^{\infty} \frac{1}{(\sqrt{n+1}-1)\sqrt{n+1}}$ is	
a)conditionally convergent b)a divergent p series c)divergent by the ratio test d)a series for which the ratio test is inconclusive e) absolutely convergent f)none of the above	a)diverges by the limit comparison test b) convergent by the integral test c) convergent by the ratio test d) convergent by the root test e) divergent by the ratio test f)none of the above	
2)The series $\sum_{n=1}^{\infty} \frac{3^{n-1}n^n}{2^{2n+3}}$ is a)diverges by the root test b)a convergent p series c)converges by the root test d)a series for which the root test is inconclusive e) a divergent geometric series f)none of the above	5)The series $\sum_{n=1}^{\infty} \frac{(-1)^{n-1}}{4^{n+2} + (n+3)^3}$ is a)conditionally convergent b)divergent c)absolutely convergent d)convergent by the integral test e)divergent by the alternating series test f)none of the above	
3)The series $\sum_{n=1}^{\infty} (-1)^n (\sqrt{n+3} - \sqrt{n+2})$ is a)diverges by the limit comparison test b) conditionally convergent c) absolutely convergent d)diverges by the divergent test e) divergent by the ratio test f)none of the above	6)The series $\sum_{n=1}^{\infty} (3\sqrt{3} - \sqrt[n]{3})^{\frac{n}{2}}$ is a)the root test is inconclusive b) conditionally convergent c) a divergent geometric series d) convergent by the root test e) divergent by the root test f)none of the above	

7)If the sum of the first n terms of a sories 
$$\sum_{n=0}^{\infty} a_n$$
 is given by
10)The series  $\sum_{n=1}^{\infty} \frac{(-1)^n (n!)^2 3^n}{(n+1)!}$  is.

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