The sum of coefficients of integral powers of x in the binomial expansion of  $(1-2\sqrt{x})^{50}$  is:

(1)  $\frac{1}{2}(3^{50} - 1)$ 

(2)  $\frac{1}{2}(2^{50} + 1)$ 

 $\frac{1}{2}(3^{50} + 1)$ 

(4)  $\frac{1}{2}(3^{50})$ 

(1-2/22)50

Grenal term = 50 (-2 x'/2) gr

= 50(-2) x 2/2

**DOPREP** 

.. Coefficients of integral powers of x are  $50C_{0}(-2)^{\circ}; \quad 50C_{2}(-2)^{2}; \quad 50C_{4}(-2)^{4}; \quad ... \quad 50(-2)^{50}$ 

 $= 50 c_{0} + 50 c_{2} + 50 c_{4} + - - + 50 c_{50} = 5$ 

(1+X) 50 + (1-X) = 25; where X = 2

 $S = \frac{1}{2} \left\{ 3 + 1 \right\}$ 

: Correct of tion is (3)