Professor Vishwanathan Iyer's

HERAMB COACHING CLASSES

Yogeshwar Towers, Katemanivali, Kalyan (East) **Date: 01/09/2018**

XI/Math's **Marks: 30** **Duration:1Hr**

Q.1. Find the value of:

1) $log_{1/2}8$ 2)$log_5 0.008$ 3) $log_5 3125$ 4) $log_7 \sqrt[3]{7}$

Q.2. show that, $log_6 7 = \frac{log_2 7}{1+log_2 3}$

Q.3. Solve for x , if $x + log_{10}(1 + 2^x) = x\ log_{10}5 + log_{10}6$

Q.4. Find the value of $\frac{(0.3125)^2}{(0.4629)^{\frac{1}{3}}}$

Q.5. Find the value of, $\sqrt[3]{(35.285)^2 + (23.45)^3}$

Q.6. $if\ \log\left(\frac{x+y}{3}\right) = \frac{1}{2}\log x + \frac{1}{2}\log y, show\ that\ \frac{x}{y} + \frac{y}{x} = 7$

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