

ASSIGNMENT-5

- ① Write Fourier series and find it's coefficients [considering expanding $f(x)$]?
20M
- ② Expand function $f(x)$ as a power series in x and evaluate using Taylor series expansion?
20M
- ③ Expand $\sin x$, $\cos x$ and e^x using Taylor Series Expansion?
20M
- ④ Explain the Simple Harmonic motion?
20M
- ⑤ Evaluate the average of a function? And calculate the average of $\cos x$, $\sin x$, $\cos^2 x$ and $\sin^2 x$
20M