

Professor Vishwanathan Iyer's

HERAMB COACHING CLASSES

Yogeshwar Towers, Katemanivali, Kalyan (East)

Date: 26/11/17

XII/MATHEMATICS

Marks: 20

Duration: 1Hour

Attempt any 8

Q.NO.1 $\int x \sin 3x \, dx$

Q.NO.2 $\int x^2 \sin x \, dx$

Q.NO.3 $\int x \cos^{-1} x \, dx$

Q.NO.4 $\int e^x \left(\frac{1 + \sin x \cos x}{\cos^2 x} \right) dx$

Q.NO.5 $\int e^x \left(\frac{1 - \sin x}{1 - \cos x} \right) dx$

Q.NO.6 $\int \sqrt{x^2 - 4x + 5} \, dx$

Q.NO.7 $\int \frac{2x+1}{(x+1)(x-2)} dx$

Q.NO.8 $\int \frac{2x^2-1}{(x^2+4)(x^2+5)} dx$

Q.NO.9 $\int \frac{5x^2+20x+6}{x^3+2x^2+x} dx$

Q.NO.10 $\int \tan^{-1} x \, dx$

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