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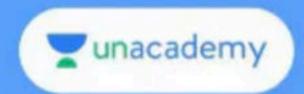
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Iconic	12 Months	2-30,780	₹ 24,624	₹ 6,156 (20%)
-	6 Months	₹-21,540	₹ 17,232	₹ 4,308 (20%)

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Gajendra Purohit



Legend in CSIR-UGC NET & IIT-JAM

- Unlock Code: GPSIR - PhD, CSIR NET (Maths) | Youtuber(800K+165K Sub.)/Dr.Gajendra Purohit (Maths), 17+ Yr. Experience, Author

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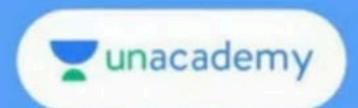
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Method of Evaluation (P.I.)

Case 4: When $Q = e^{ax}V$, where V is a function of x

$$\frac{e^{ax}V}{f(D)} = e^{ax} \frac{V}{f(D+a)}$$

A particular solution of the differential equation

$$y''' - 3y'' + 3y' - y = e^x \cos 2x$$
 is

(a)
$$-\frac{1}{8}e^x \sin 2x$$

(c)
$$\frac{1}{8}e^x \cos 2x$$

(b)
$$\frac{1}{8}e^x \sin 2x$$

(d)
$$e^x \sin 2x$$

Case 5: To find the P.I. for $Q = x^n \sin ax$ or $Q = x^n \cos ax$

Write

$$\frac{1}{f(D)}x^n \sin ax = \text{Imaginary Part (IP) in } e^{iax} \frac{1}{f(D+ia)}x^n$$

And
$$\frac{1}{f(D)}x^n \cos ax = \text{Real Part (RP) in } e^{iax} \frac{1}{f(D+ia)}x^n$$

Q2.

A particular integral of the differential equation

$$\frac{d^2y}{dx^2} - 2\frac{dy}{dx} = e^{2x}\sin x is$$

(a)
$$\frac{e^{2x}}{10} (3\cos x - 2\sin x)$$
 (b) $\frac{e^{2x}}{10} (3\cos x - 2\sin x)$ (c) $-\frac{e^{2x}}{5} (2\cos x + \sin x)$ (d) $\frac{e^{2x}}{5} (2\cos x - \sin x)$

(c)
$$-\frac{e^{2x}}{5}(2\cos x + \sin x)$$
 (d) $\frac{e^{2x}}{5}(2\cos x - \sin x)$

Q3. The general solution of the differential equation $y''(x)-4y'(x)+8y(x)=10e^x \cos x$

(a)
$$e^{2x} (k_1 \cos 2x + k_2 \sin 2x) + e^x (2\cos x + \sin x)$$

(b)
$$e^{2x} (k_1 \cos 2x + k_2 \sin 2x) + e^x (2 \cos x - \sin x)$$

(c)
$$e^{-2x} (k_1 \cos 2x + k_2 \sin 2x) - e^x (2 \cos x - \sin x)$$

(d)
$$e^{-2x} (k_1 \cos 2x + k_2 \sin 2x) + e^x (2 \cos x + \sin x)$$

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- O III-JAM
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FOUNDATION COURSE OF MATHEMATICS FOR CSIR-NET

Q.4. Solve $(D^2 - 2D + 1)y = \sin x + x^2 e^x$.

(a)
$$(c_1 + c_2 x)e^x + \left(\frac{1}{2}\right)\cos x + \left(\frac{1}{12}\right)x^4 e^x$$

(b)
$$(c_1 + c_2 x) e^{-x} + \left(\frac{1}{2}\right) \cos x - \left(\frac{1}{12}\right) x^4 e^x$$

(c)
$$(c_1 + c_2 x) e^{-x} + \left(\frac{1}{2}\right) \cos x + \left(\frac{1}{12}\right) x^4 e^x$$

(d) None of these

Q.5. Let p(x) be the particular integral of

$$(D^2 + 1)y = e^x \cos x + \sin 3x \text{ then } p(0)$$

(a)
$$-\frac{119}{730}$$

(b)
$$\frac{119}{730}$$

(c)
$$\frac{19}{730}$$

(d) None of these

Q.6. Let p(x) be the particular solution integral of the equation

$$(D^2 + 4)y = x\sin x$$
, then $p\left(\frac{\pi}{2}\right)$.

(a) $\pi/3$

(b) $-\pi/6$

(c) $\pi/2$

(d) $\pi/6$

Q7. If y(t) is a solution of the differential equation $y'' + 4y = e^{2t}$ then $\lim_{t\to\infty} e^{-t} y(t)$ is equal to

- (a) 2/3
- (c) 2/7



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Educator Profile





Dr.Gajendra Purohit PhD, CSIR NET (Maths) | Youtuber(330K+30k Sub.)/Dr.Gajendra Purohit (Maths), 17+ Yr. Experience, Author of Bestseller

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Educator highlights

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Works at Pacific Science College

- Studied at M.Sc., NET,
 PhD(Algebra), MBA(Finance),
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- PhD, NET | Plus Educator For CSIR NET | Youtuber
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