EXERCISE 3.26

Solve the following differential equations:

1. $x^2 \frac{d^2y}{dx^2} - 4x \frac{dy}{dx} + 6y = \frac{42}{x^4}$ **Ans.** $C_1 x^2 + C_2 x^3 + \frac{1}{x^4}$

2. $(x^2 D^2 - 3x D + 4)\, y = 2x^2$ **Ans.** $(C_1 + C_2 \log x)\, x^2 + x^2 (\log x)^2$

3. $x^2 \frac{d^2y}{dx^2} - x \frac{dy}{dx} + y = \log x$ *(AMIETE, June 2010)* **Ans.** $(C_1 + C_2 \log x)\, x + \log x + 2$

4. $\frac{d^2y}{dx^2} + \frac{1}{x}\frac{dy}{dx} = \frac{12 \log x}{x^2}$ **Ans.** $C_1 + C_2 \log x + 2 (\log x)^3$

5. $(x^2 D^2 - x D - 3)\, y = x^2 \log x$ **Ans.** $\frac{C_1}{x} + C_2 x^3 - \frac{x^2}{3}\left(\log x + \frac{2}{3}\right)$
(A.M.I.E. Winter 2001, Summer 2001)

6. $x^2 \frac{d^2y}{dx^2} - 2x \frac{dy}{dx} + 2y = x^2 + \sin(5 \log x)$
Ans. $c_1 x + c_2 x^2 + x^2 \log x + \frac{1}{754}[15 \cos(5 \log x) - 23 \sin(5 \log x)]$

7. $x^2 \frac{d^2y}{dx^2} - 3x \frac{dy}{dx} + y = \log x \frac{\sin(\log x) + 1}{x}$ *(AMIETE, Dec. 2009)*
Ans. $y + C_1 x^{2+\sqrt{3}} + C_2 x^{2-\sqrt{3}} + \frac{1}{x}\left[\frac{382}{61}\cos \log x + \frac{54}{61}\sin(\log x) + 6 \log x \cos(\log x) + 5 \log x \sin(\log x)\right] + \frac{1}{6x}$

8. $(1+x)^2 \frac{d^2y}{dx^2} + (1+x)\frac{dy}{dx} + y = 2 \sin \log(1+x)$
Ans. $y = C_1 \cos \log(1+x) + C_2 \sin \log(1+x) - \log(1+x) \cos \log(1+x)$

9. Which of the basis of solutions are for the differential equation $x^2 \frac{d^2y}{dx^2} - x \frac{dy}{dx} + y = 0$
(a) $x, x\, I_n x$, (b) $I_n x, e^x$ (c) $\frac{1}{x}, \frac{1}{x^2}$, (d) $\frac{1}{x^2} e^x, x\, I_n x$
(A.M.I.E., Winter 2001) **Ans.** (a)

10. The general solution of $x^2 \frac{d^2y}{dx^2} - 5x \frac{dy}{dx} + 9y = 0$ is
(a) $(C_1 + C_2 x)\, e^{3x}$ (b) $(C_1 + C_{2n} x)\, x^3$ (c) $(C_1 + C_2 x)\, x^3$ (d) $(C_1 + C_2 I_n x)\, e^{x^3}$
(AMIETE, Dec. 2009) **Ans.** (b)

11. To transform $x \frac{d^2y}{dx^2} + \frac{dy}{dx} = \frac{1}{x}$ into a linear differential equation with constant coefficients, the required substitution is
(a) $x = \sin t$ (b) $x = t^2 + 1$ (c) $x = \log t$ (d) $x = e^t$
(AMIETE, June 2010) **Ans.** (d)

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