

Q3

- a) Solve $(D^4 + 2D^2 + 1)y = x^2 \cos x$. 05
 b) The deflection of a strut of length l with one end ($x=0$) built in and the other supported and subjected to end thrust P , satisfies the equation $\frac{d^2y}{dx^2} + a^2y = \frac{P}{EI}(1-x)$, prove that the deflection curve is $y = \frac{P}{EI} \left(\frac{\sin ax}{a} - l \cos ax + l - x \right)$, where $al = \tan al$. 05
 c) Find the Fourier sine integral for $f(x) = e^{-\beta x}$, ($\beta > 0$) & hence show that 05

$$\int_0^{\infty} \frac{\lambda \sin \lambda x}{\lambda^2 + \beta^2} d\lambda = \frac{\pi}{2} e^{-\beta x}$$

Q4

- a) Solve $\frac{d^2y}{dx^2} + 2 \frac{dy}{dx} + 2y = e^{-x} \sin x$. 05
 b) A mass 40 kg is attached to a spring for which $k=640$ N/m brought to rest. Find the position of the mass at time t if a force equal to $10 \sin 2t$ is applied to it. 05
 c) Find $f(x)$ if its Fourier sine transform is $\frac{e^{-a\lambda}}{\lambda}$ & hence deduce $f^{-1}\left(\frac{1}{\lambda}\right)$. 05

Q5

- a) Solve by method of variation of parameter $\frac{d^2y}{dx^2} + 4y = \tan 2x$. 05
 b) Solve without variation parameter $(D^2 + 3D + 2)y = \cos(e^x)$. 05
 c) Solve for $f(x)$ from the integral equation $\int_0^{\infty} f(x) \cos sx dx = e^{-x}$. 05

Section B

Q6 Solve any five from the following. 10

a) Find the mode from the following data.

Age	20-30	30-40	40-50	50-60	60-70	70-80	80-90
Freq.	3	61	132	153	140	51	2

b) In what direction for the point (3, 1, -2) directional derivative of $\phi = x^2y^2z^4$ maximum.

c) State Gauss divergence theorem.

d) Find the area under the normal curve between $z = -1.23$ to $z = 2.13$.

e) Show that $F = (y^2 + 2xz^2)i + (2xy - z)j + (2x^2z - y + 2z)k$ is irrotational.

f) Coefficient of Quartile Deviation = _____.

g) The probability of evening college students will graduate is 0.3. Determine the probability that out of five students at least one will graduate.

h) Find the curl of $\vec{A} = e^{xyz} (i + j + k)$ at the point (1,2,3).



Engineering Mathematics Bamu

A Gutmann



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