

Time: 3 Hours

Max. M. 85/ Min. M. 28

Section-A (Objective type question)

Note:- Attempt all questions. Each question carries 02 marks.

(5x2=10)

- Q1. Choose the correct option :-
- (i) (a) $f^{(n)}(-x) = (-1)^n f^{(n)}(x)$ (b) $f^{(n)}(-x) = (-1)^n f^{(n)}(x)$
(c) $f^{(n)}(x) = f^{(n)}(-x)$ (d) $f^{(n)}(x) = f^{(n)}(x)$
 - (ii) Find the Laplace transform of $e^{-at} \cos t$ -
(a) $\frac{1}{s-a}$ (b) $\frac{1}{s-a}$ (c) $\frac{1}{s^2+a^2}$ (d) $\frac{2}{s}$
 - (iii) The symmetry property of Green's function is-
(a) $G(r_1, r_2) = G(r_2, r_1)$ (b) $G(r_1, r_2) = 0$ (c) $G(r_1 - r_2) = G(r_2 + r_1)$ (d) None of these
 - (iv) The residue of $f(z) = \frac{e^{az}}{z^2+4a^2}$ at $z = ia$ is-
(a) $\frac{e^{ia}}{2ia}$ (b) $\frac{e^{ia}}{2ia}$ (c) $\frac{e^{ia}}{4ia}$ (d) None of these
 - (v) The generating function for Laguerre polynomial is given by-
(a) $(1 - 2xz + z^2)^{-1}$ (b) $\frac{e^{-xz} - 1}{1-x}$ (c) $e^{2xz - z^2}$ (d) None of these

Section-B (Short Answer type questions)

Note:- Attempt any five questions. Each question carries 07 marks.

(5x7=35)

- Q2. Prove that $x f^{(n)}(x) = -n f^{(n)}(x) + x f^{(n-1)}(x)$
- Q3. Prove that $H_n'(x) = 2n H_{n-1}(x)$
- Q4. Find the Laplace transform of- (i) $\cos^2 t$ (ii) $2x \sin 2t \cos ut$
- Q5. Define Laplace transform. Establish the relation between Fourier transform and Laplace transform.
- Q6. Explain symmetry property of Green's function.
- Q7. State and prove Cauchy's Theorem.
- Q8. Evaluate $\int_0^{2\pi} \frac{4Q}{s-2 \cos \theta} d\theta$
- Q9. Prove that $e^{\frac{1}{2}z} \left(z - \frac{1}{2}\right) = \sum_{n=0}^{\infty} z^n f^{(n)}(x)$

Section-C (Long Answer type questions)

Note:- Attempt any two questions. Each question carries 20 marks.

(2x20=40)

- Q10. Derive series solution of Legendre differential equation. $(1-x^2) \frac{d^2y}{dx^2} - 2x \frac{dy}{dx} + n(n+1)y = 0$
- Q11. Explain Fourier integral.
(a) Explain Fourier integral (b) State and prove convolution theorem of Fourier transform
- Q12. Define analytic function. Derive necessary and sufficient condition for a function to be analytic.
- Q13. (a) Prove that $2x H_n(x) = 2n H_{n-1}(x) + H_{n+1}(x)$
(b) State and prove Cauchy's residue theorem. Determine the poles and the residue at simple pole of the function $f(z) = \frac{e^z}{(z-1)^2(z+2)}$
- Q14. Explain Green's function. Discuss the Green's function for electrostatic boundary value problem.

Msc Physics Solved Papers

Xiaolong Qi



Msc Physics Solved Papers:

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In a digital era where connections and knowledge reign supreme, the enchanting power of language has become more apparent than ever. Its capability to stir emotions, provoke thought, and instigate transformation is truly remarkable. This extraordinary book, aptly titled "**Msc Physics Solved Papers**," written by a very acclaimed author, immerses readers in a captivating exploration of the significance of language and its profound effect on our existence. Throughout this critique, we shall delve into the book's central themes, evaluate its unique writing style, and assess its overall influence on its readership.

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