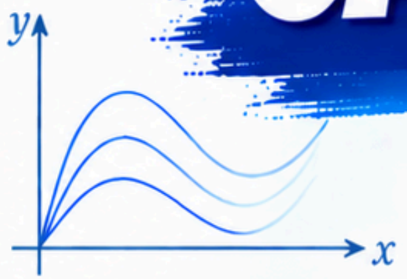
$\frac{dy}{dx} = f(x, y)$

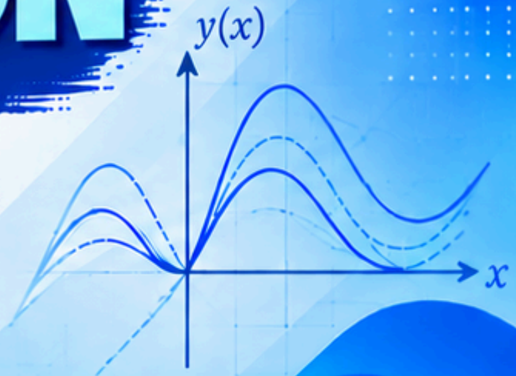
$y'' + p(x)y' + q(x)y = 0$

CSIR NET DEC 2026

CALCULUS OF VARIATION

TO-DO LIST





- Exam Weightage
- YouTube Video Links
- Short Notes
- Previous Year Questions (PYQs)
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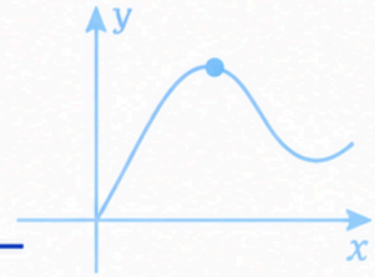
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$$J[y] = \int_a^b F(x, y, y')dx$$

Calculus of Variations



01 Variation of a functional, Euler-Lagrange equation, Necessary and sufficient conditions for extrema.

02 Variational methods for boundary value problems in ordinary and partial differential equations.

$$\delta J[y] = 0$$

$$\frac{\partial F}{\partial y} - \frac{d}{dx}\left(\frac{\partial F}{\partial y'}\right) = 0$$

CALCULUS OF VARIATION

[redacted]

Topics	YouTube Videos [Click on the LINK to watch the video]
Variation of function	WATCH NOW
Euler-lagrange Equation	WATCH NOW
Necessary and Sufficient Condition for Extrema	WATCH NOW

PREVIOUS YEARS WEIGHTAGE

ANALYSIS OF CSIR-NET / JRF PREVIOUS YEAR PAPER

SUBJECTS	DEC. 2018			SUBJECTS	JUNE. 2019			SUBJECTS	DEC. 2019			SUBJECTS	26 NOV. 2020		
	JRF		LS		JRF		LS		JRF		LS		JRF		LS
	MARKS				MARKS				MARKS				MARKS		
SECTIONS	PART B	PART C	TOTAL	SECTIONS	PART B	PART C	TOTAL	SECTIONS	PART B	PART C	TOTAL	SECTIONS	PART B	PART C	TOTAL
UNIT - III	24	57	81	UNIT - III	24	57	81	UNIT - III	24	57	81	UNIT - III	24	57	81
COV	3	9.5	12.5	COV	3	9.5	12.5	COV	3	9.5	12.5	COV	3	9.5	12.5

SUBJECTS	30 NOV. 2020			SUBJECTS	16-Feb-22			SUBJECTS	JUNE. 23			SUBJECTS	DEC. 2023		
	JRF		LS		JRF		LS		JRF		LS		JRF		LS
	MARKS				MARKS				MARKS				MARKS		
SECTIONS	PART B	PART C	TOTAL	SECTIONS	PART B	PART C	TOTAL	SECTIONS	PART B	PART C	TOTAL	SECTIONS	PART B	PART C	TOTAL
UNIT - III	27	47.5	74.5	UNIT - III	24	52.25	76.25	UNIT - III	24	57	81	UNIT - III	27	47.5	74.5
COV	3	4.75	7.75	COV	3	4.75	7.75	COV	3	4.75	7.75	COV	3	4.75	7.75

SUBJECTS	Jun-24			SUBJECTS	Feb-25			SUBJECTS	Jul-25			SUBJECTS	Dec-25		
	JRF		LS		JRF		LS		JRF		LS		JRF		LS
	MARKS				MARKS				MARKS				MARKS		
SECTIONS	PART B	PART C	TOTAL	SECTIONS	PART B	PART C	TOTAL	SECTIONS	PART B	PART C	TOTAL	SECTIONS	PART B	PART C	TOTAL
UNIT - III	24	52.25	76.25	UNIT - III	24	52.25	76.25	UNIT - III	21	52.25	73.25	UNIT - III	21	47.5	68.5
COV	6	4.75	10.75	COV	3	9.5	12.5	COV	3	9.5	12.5	COV	3	4.75	7.75

December 2025

Topics	Questions	Total Marks
Topology	3	12.85
Functional Analysis	1	4.75
Integral Equation	3	12.5
Markov Chain	2	7.75
COV (Calculus of Variations)	3	12.5
Numerical Analysis	3	12.5
Linear Programming Problems	1	3
Total	**16**	**65.85**

June 2025

Topics	Questions	Total Marks
Topology	2	7.75
Functional Analysis	1	4.75
Integral Equation	3	12.5
Markov Chain	1	4.75
Calculus of Variation	3	12.5
Numerical Analysis	3	12.5
Linear Programming Problem	1	3
Total	**14**	**57.75**

JULY-2026

14 QUESTIONS

TOPIC	NO. OF QUESTIONS	MARKS
Topology	3	12.5
Functional Analysis	1	4.75
Integral Equation	2	7.75
Marcov Chain	2	7.75
COV (Calculus of Variation)	1	4.75
Numerical Analysis	3	12.5
Linear Programming Problem	2	7.75
TOTAL	**14**	**57.75**

SHORT NOTES

Variational problem with fixed boundaries

Let $y = y(x)$ be a curve and $F(x, y, y')$ is given function, where $y(x_0) = y_0$ & $y(x_1) = y_1$ then definite integral $I[y(x)] = \int_{x_0}^{x_1} F(x, y, y')dx$ is called a functional.

Extremal : A function which extremizes a functional is called extremal.

Euler's Equation

For $\int_{x_1}^{x_2} F(x, y, y')dx$ Euler's equation is given by $\frac{\partial F}{\partial y} - \frac{d}{dx}\left(\frac{\partial F}{\partial y'}\right) = 0$ ..... (1)

Other form of Euler's equation $\frac{d}{dx}\left[F - y'\frac{\partial F}{\partial y'}\right] - \frac{\partial F}{\partial x} = 0$ ..... (2)

Particular case of Euler's equation :

Case – 1 : If F is independent of x i.e. $F = F(y, y')$, then from (2)

$$F - y'\frac{\partial F}{\partial y'} = \text{Constant}$$

Case – 2 : If F is independent of y' i.e. $F = F(x, y)$ then Euler's equation

From (1) $\frac{\partial F}{\partial y} = 0$

Case – 3 : If F is independent of y i.e. $F = F(x, y')$ then

$$\frac{\partial F}{\partial y'} = \text{Constant}$$

Case – 4 : If F is independent of x and y both i.e. $F = F(y')$ then

$$\frac{\partial^2 y}{\partial x^2} = 0 \quad \Rightarrow \quad y = c_1x + c_2$$

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COV – SHORT NOTES

Functional Dependent on Higher derivatives

Let $I[y(x)]=\int_{x_0}^{x_1} F(x,y,y',y''....,y^n)dx$ be a functional. Then Euler – Poisson equation

$$\frac{\partial F}{\partial y}-\frac{d}{dx}\left(\frac{\partial F}{\partial y'}\right)+\frac{d^2}{dx^2}\left(\frac{\partial F}{\partial y''}\right)....(-1)^n\frac{d^n}{dx^n}\left(\frac{\partial F}{\partial y^n}\right)=0$$

Functional for several dependent variable

Let $I[y(x)]=\int_{x_0}^{x_1} F(x,y_1,y_1',y_2,y_2'....,y_n,y_n')dx$ be a functional. Then a condition to be extremal is

that $\frac{\partial F}{\partial y_i}-\frac{d}{dx}\left(\frac{\partial F}{\partial y_i'}\right)=0 \quad ;i=1,2,3,...,n$

Functional dependent on Several Independent variables

Let $I[y(x)]=\int\int_D F(x,y,u,u_x,u_y)dxdy$ be a functional. Then a condition to be extremal is that

$$\frac{\partial F}{\partial u}-\frac{d}{dx}\left(\frac{\partial F}{\partial u_x}\right)-\frac{d}{dy}\left(\frac{\partial F}{\partial u_y}\right)=0$$

Isoperimetric Problem

Let $I[y(x)]=\int_{x_0}^{x_1} f(x,y,y')dx$ be a functional and subject to constraint $J[y(x)]=\int_{x_0}^{x_1} g(x,y,y')dx =$ constant. This type of problem is called a isoperimetric problem.

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Working rule :

Consider F = f + λg, where λ is called Lagrange's multiplier.

Then the use of Euler's equation on F i.e. $\frac{\partial F}{\partial y}-\frac{d}{dx}\left(\frac{\partial F}{\partial y'}\right)=0$ .... (i)

Solve equation (1) and get solution

Variational problem with moving boundaries

Consider the functional $I[y(x)=\int_{x_1}^{x_2} F(x,y,y')dx$

Let us assume that one of the boundary point (x_1, y_1) is fixed while the other boundary point. (x_2, y_2) can moves on the curve $y=\phi(x)$. Then $[F+(\phi'-y')F_{y'}]_{x=x_2}=0$

This is called Transversality condition.

COV – SHORT NOTES

Note : If the boundary point (x_1, y_1) moves along a curve $y=\phi(x)$ and other point (x_2, y_2) moves along the curve $y=\psi(x)$, then $[F+(\phi'-y')F_{y'}]_{x=x_1}=0$

$[F+(\psi'-y')F_{y'}]_{x=x_2}=0$. This gives required extremal of functional.

Orthogonality condition

If one boundary point (x_2, y_2) moves on a curve $y=\phi(x)$, then $\phi'.y'=-1$

Sufficiency condition for an extremal is to be maximum or minimum

Legendre condition :

For achieving maximum or minimum on the extremal, central field is considered.

Considered functional $\int_{x_1}^{x_2} F(x,y,y')dx$

(a) If $\frac{\partial^2 F}{\partial y'\partial y'}>0$ on C weak minima (b) If $\frac{\partial^2 F}{\partial y'\partial y'}<0$ on C weak maxima

(c) If $\frac{\partial^2 F}{\partial y'\partial y'}\geq 0$ on C strong minima. (d) If $\frac{\partial^2 F}{\partial y'\partial y'}\leq 0$ on C strong maxima.

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Weriestrass condition :

Consider, $I[y]=\int_a^b F(x,y,y')dx$ with $y(a)=y_a; y(b)=y_0$

The Werierstrass function is given by $E(x,y,y',p)=F(x,y,y')-F(x,y,p)-(y'-p)F_p(x,y,p)$

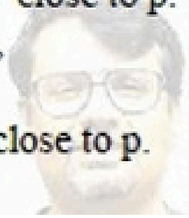
Where, $p=\frac{dy}{dx}$ along the extremal of the field.

(1) For strong maximum is $E \leq 0 \quad \forall$ y'.

(2) For weak maximum is $E \leq 0 \quad \forall$ y' close to p.

(3) For strong minimum is $E \geq 0 \quad \forall$y'

(4) For weak minimum is $E \geq 0 \ \forall$y' close to p.



-:Previous Year Questions :-

NOTE:- click on abovetextyoucanrefertolinkofvideosolution of questions

1. Let y(x) be the extremal of the functional $J[y]=\int_0^{\pi/4}((y')^2-4y^2+2xy)dx$ subject to y(0) = 0, y(π/4) = 1. Then y(x) is equal to **CSIR NET JULY 2025**

(a) $\left(1-\frac{\pi}{4}\right)\sin(2x)+x$

(b) $\left(1-\frac{\pi}{16}\right)\sin(2x)+\frac{x}{4}$

(c) $\left(1+\frac{\pi}{4}\right)\sin(2x)-x$

(d) $\left(1+\frac{\pi}{16}\right)\sin(2x)-\frac{x}{4}$

2. For $\alpha \geq 0$, consider the functional $J_\alpha[y]=\int_1^2\frac{(y')^2}{x^\alpha}dx$ defined for all continuously differentiable functions defined on the interval [1, 2] satisfying the conditions y(1) = 1, y(2) = 2. Then which of the following statements are true? **CSIR NET JULY 2025**

3. For a, b, c ∈ R, consider the variational problem : **CSIR NET JULY 2025**

Minimize $J[y]=\int_0^2[a(y')^2+2byy'+cy^2]dx$ subject to y(0) = 10, y(1) = 100.

Then which of the following statements are true?

(a) If (a, b, c) = (-2, 1, -2), then every admissible extremal is a minimizer.

(b) If (a, b, c) = (1, 0, 2), then every admissible extremal is a minimizer.

(c) If (a, b, c) = (2, -1, 1), then every admissible extremal is a minimizer.

(d) If (a, b, c) = (1, -2, 5), then every admissible extremal is a minimizer.

4. Let S denote the set of all solutions of the Euler-Lagrange equation of the variational problem. **CSIR NET DEC. 2024**

Minimize $J[y]=\int_0^1(y^2+(y')^2)dx$

Subject to $y(0)=0, y(1)=0, \int_0^1 y^2dx=1$.

Then the set $\{\phi(1/2):\phi\in S\}$ is equal to

(a) $\{-\sqrt{2},\sqrt{2}\}$

(b) $\left\{\frac{\sqrt{2}}{k};k\in Z,k\neq 0\right\}$

(c) $\left\{\sqrt{\frac{2}{k}};k\in N\right\}$

(d) $\{-\sqrt{2},0,\sqrt{2}\}$

Q5. The extremizes of the problem $\min\left[\frac{1}{2}\left[\int_{-1}^{1}\left(y'(x)\right)^2+\left(y(x)\right)^2\right]dx\right]$,

subject to $y \in C^1[-1, 1]$, $\int_{-1}^{1} xy(x)dx = 0$ and $y(-1) = y(1) = 1$ is

CSIR NET JULY 2024

(a) $\frac{e}{1+e^2}\left(e^x+e^{-x}\right)+x^2-1$

(b) $\frac{e}{1+e^2}\left(e^x+e^{-x}\right)+\left(1-x^2\right)$

(c) $\frac{e}{1+e^2}\left(e^x+e^{-x}\right)$

(d) $\frac{e}{1+e^2}\left(e^x+e^{-x}\right)+\sin(2\pi x)$

6. The infimum of the set **CSIR NET JULY 2024**

$\left\{\int_a^b \sqrt{1+\left(y'(t)\right)^2}\,dt : y \in c^1[a,b], y(a) = a^2, y(b) = b-5\right\}$ is

(a) $\frac{19\sqrt{2}}{8}$

(b) $19\sqrt{2}$

(c) $\frac{19}{8}$

(d) $\frac{19}{2\sqrt{2}}$

7. The extremal passing through the points (1, 2) and (2, 8). Then extremal atleast

$J[y] = \int_0^1 (1+x^3y^n)y'dy$ passing through **CSIR DEC 202**

(a) $(\sqrt{2},3)$

(b) $(\sqrt{2},6)$

(c) $\left(\sqrt{3},\frac{22}{3}\right)$

(d) $\left(\sqrt{3},\frac{19}{3}\right)$

8. The cardinality of the set of extremals $I[y] = \int_0^1 y'^2\,dx; y(0) = 1, y(1) = 6$ and $\int_0^1 ydx = 3$.

CSIR DEC. 2023

(a) 0

(b) 1

(c) 2

(d) infinite

9. Let S denote the set of all solutions of the Euler-Lagrange equation of the variational problem. **CSIR NET FEB. 2025**

Minimize $J[y]=\int_0^1 (y^2+(y')^2)dx$

Subject to $y(0)=0$, $y(1)=0$, $\int_0^1 y^2dx=1$.

Then the set $\{\phi(1/2):\phi\in S\}$ is equal to

(a) $\{-\sqrt{2},\sqrt{2}\}$ (b) $\left\{\frac{\sqrt{2}}{k};k\in Z,k\neq 0\right\}$

(c) $\left\{\sqrt{\frac{2}{k}};k\in N\right\}$ (d) $\{-\sqrt{2},0,\sqrt{2}\}$

10. Suppose y(x) is the extremal of the variational problem $J(y)=\int_0^4 \frac{(y')^2}{y^2}dx$ subject to $y(0)=1$, $y(4)=e^8$. Then which of the following statements is true?

CSIR NET DEC 2025

(a) $y(\log_e 2)=2$ (b) $y(\log_e 3)=9$ (c) $y(\log_e 4)=4$ (d) $y(\log_e 5)=5$

11. Suppose y(x) is the extremal of the variational problem

$J(y)=\int_0^1 ((y')^2\sin x+(2\cos x)y)dx$ subject to $y(0)=0$, $y(1)=1$.

Then which of the following statements are true? **CSIR NET DEC 2025**

(a) $y\left(\frac{1}{2}\right)=1$ (b) $y'(0)=1$ (c) $y\left(\frac{1}{4}\right)=2$ (d) $y'\left(\frac{1}{2}\right)=1$

12. Suppose y(x) is the extremal of the variational problem $J(y)=\int_0^1 x^2(y')^2dx$ subject to $y(0)=0$, $y(1)=1$, $\int_0^1 y^2dx=\frac{1}{7}$. Then which of the following statements are true?

CSIR NET DEC 2025

(a) $y'\left(\frac{1}{2}\right)=\frac{3}{4}$ (b) $y'\left(\frac{1}{\sqrt{3}}\right)=1$ (c) $y'\left(\frac{1}{3}\right)=\frac{1}{3}$ (d) $y'\left(\frac{1}{4}\right)=\frac{1}{2}$

Answer Key

1	2	3	4	5	6	7	8
b	a, b, c	b, c, d	d	c	a	b, c	b
9	10	11	12				
d	b	b, d	a, b, c				

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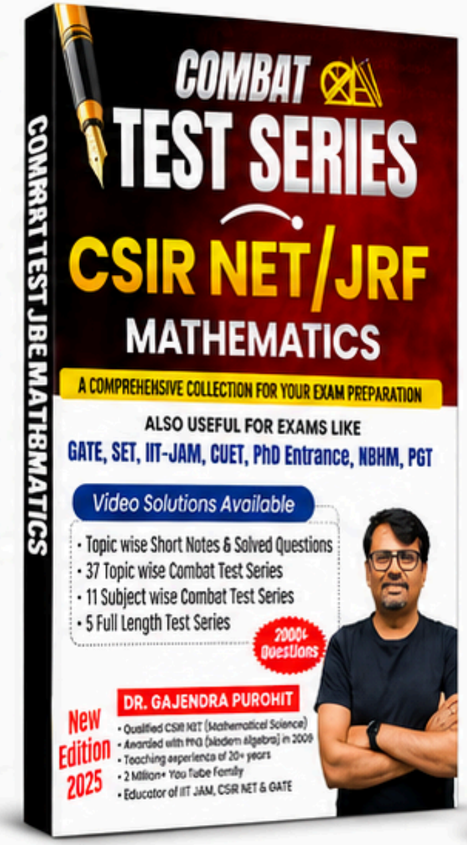
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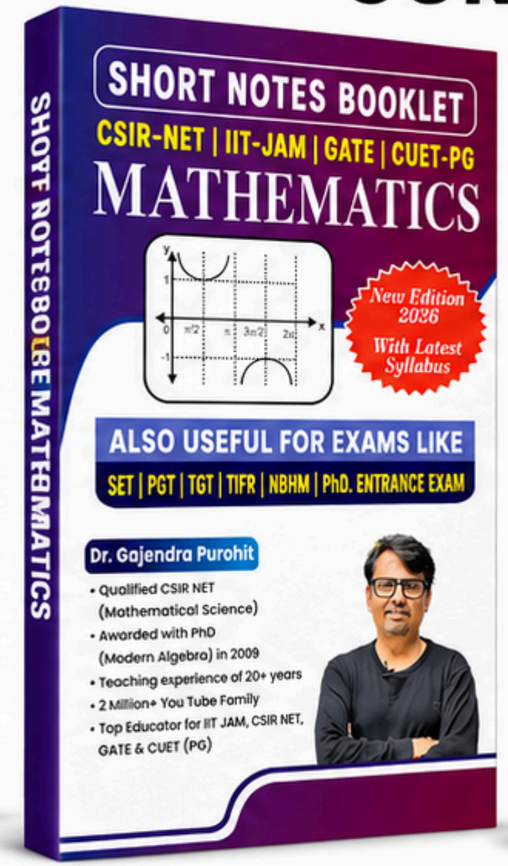
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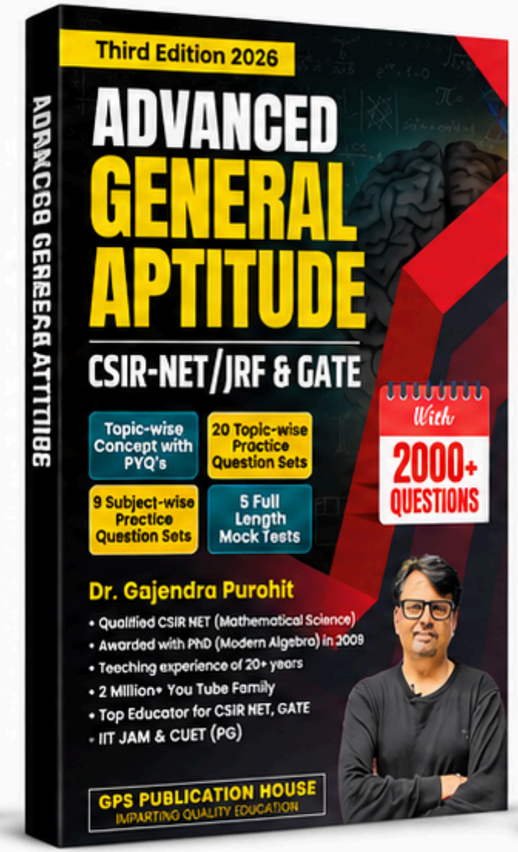
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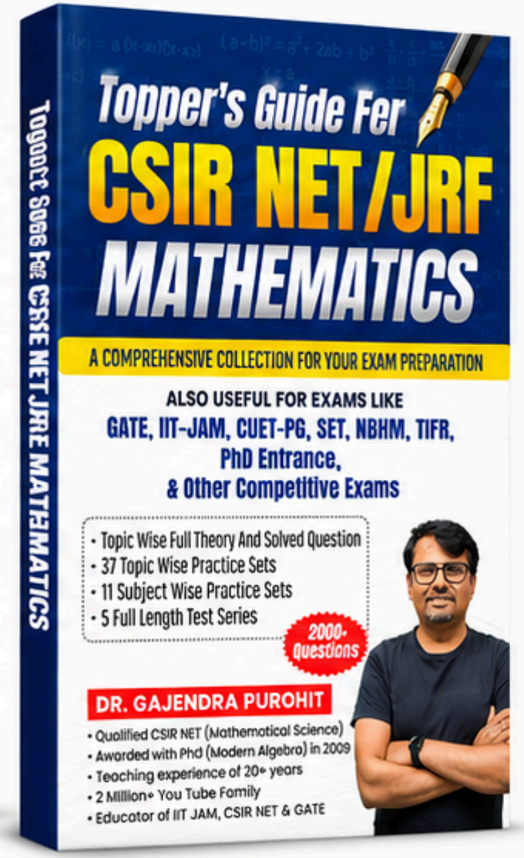
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