((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	According to Rolle's mean value theorem, $f(x)$ is continuous in $[a,b]$, differentiable in (a,b) such that $f(a)=f(b)$, then there exits $c\in(a,b)$ such that
((OPTION_A)) THIS IS MANDATORY OPTION	f(c) = 0
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	f'(c) = 0
((OPTION_C)) This is optional	f"(c) = 0
((OPTION_D)) This is optional	$f'(c) \neq 0$
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	В
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	According to Lagrange's mean value theorem, $f(x)$ is continuous in $[a,b]$, differentiable in (a,b) , then there exits $c\in(a,b)$ such that
((OPTION_A)) THIS IS MANDATORY OPTION	$f'(c) = \frac{f(b) - f(a)}{b - a}$
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	$f(c) = \frac{f(b) - f(a)}{b - a}$
((OPTION_C)) This is optional	$f''(c) = \frac{f'(b) - f'(a)}{b - a}$
((OPTION_D)) This is optional	f'(c) = 0
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	A
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	According to Cauchy's mean value theorem, $f(x) \& g(x)$ are continuous in $[a,b]$, differentiable in (a,b) such that $g(a) \neq g(b)$, then there exits $c \in (a,b)$ such that
((OPTION_A)) THIS IS MANDATORY OPTION	$\frac{f'(c)}{g'(c)} = \frac{f'(b) - f'(a)}{g'(b) - g'(b)}$
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	$\frac{f''(c)}{g''(c)} = \frac{f'(b) - f'(a)}{g'(b) - g'(b)}$
((OPTION_C)) This is optional	$\frac{f'(c)}{g'(c)} = \frac{f(b) - f(a)}{g(b) - g(b)}$
((OPTION_D)) This is optional	$\frac{f'(c)}{g'(c)} = \frac{f(b) + f(a)}{g(b) + g(b)}$
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	С

((EXPLANATION	
)) This is also	
optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	If $f(x) = x^2 - 10x + 16$ such that $f(3) = f(7)$, then according to Rolle's theorem $c =$
((OPTION_A)) THIS IS MANDATORY OPTION	2
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	3
((OPTION_C)) This is optional	4
((OPTION_D)) This is optional	5
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH	D

OICE)) Either A	
or B or C or D or	
E	
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	If $f(x) = x^3 - 12x$ defined in $\begin{bmatrix} 0, & 2\sqrt{3} \end{bmatrix}$ such that $f(0) = f\left(2\sqrt{3}\right)$, then according to Rolle's theorem $c =$
((OPTION_A)) THIS IS MANDATORY OPTION	2
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	-2
((OPTION_C)) This is optional	1
((OPTION_D)) This is optional	0
((OPTION_E)) This is optional. If optional keep empty so that	

system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	A
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	If $f(x) = \sin x$ in the interval $\begin{bmatrix} 0, & 2\pi \end{bmatrix}$, then according to Rolle's theorem $c =$
((OPTION_A)) THIS IS MANDATORY OPTION	only $\frac{\pi}{2}$
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	only $\frac{3\pi}{2}$
((OPTION_C)) This is optional	both $\frac{\pi}{2}$, $\frac{3\pi}{2}$
((OPTION_D)) This is optional	none of the above
((OPTION_E))	

This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	C
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	If $f(x) = x^3 - 4x$ defined in $[0, 2]$ such that $f(0) = f(2)$, then according to Rolle's theorem $c =$
((OPTION_A)) THIS IS MANDATORY OPTION	$\frac{\sqrt{2}}{3}$
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	$-\frac{\sqrt{2}}{3}$
((OPTION_C)) This is optional	0

((OPTION_D)) This is optional	1
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	A
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	If $f(x) = x(x-2)$ defined in $\begin{bmatrix} 1, & 3 \end{bmatrix}$ such that $f(1) = -1, f(3) = 3$, then according to Lagrange's mean value theorem, $c = -1$
((OPTION_A)) THIS IS MANDATORY OPTION	0
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	1

((OPTION_C)) This is optional	2
((OPTION_D)) This is optional	3
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	С
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	If $f(x) = x^2$ defined in $\begin{bmatrix} 1, 5 \end{bmatrix}$ such that $f(1) = 1, f(5) = 25$, then according to Lagrange's mean value theorem, $c =$
((OPTION_A)) THIS IS MANDATORY OPTION	0
((OPTION_B))	1

THIS IS ALSO MANDATORY OPTION	
((OPTION_C)) This is optional	2
((OPTION_D)) This is optional	3
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	D
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	If $f(x) = x(x-1)$ defined in $\begin{bmatrix} 1, 2 \end{bmatrix}$ such that $f(1) = 0$, $f(2) = 2$, then according to Lagrange's mean value theorem, $c =$
((OPTION_A)) THIS IS MANDATORY	$\frac{1}{2}$

OPTION	
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	$\frac{3}{2}$
((OPTION_C)) This is optional	$-\frac{3}{2}$
((OPTION_D)) This is optional	$\frac{3}{4}$
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	В
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	If $f(x) = x^2 - 3x + 2$ defined in $[-1, 2]$ such that $f(-1) = 6$, $f(2) = 0$, then according to Lagrange's mean value theorem, $c =$

((OPTION_A)) THIS IS MANDATORY OPTION	$\frac{1}{2}$
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	1
((OPTION_C)) This is optional	$\frac{3}{2}$
((OPTION_D)) This is optional	2
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	A
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2	1
OR 3 UPTO 10)	
((QUESTION))	If $f(x) = x^2$, $g(x) = x^3$ defined in $[0, 1]$ such that
ENTER	$f(0)=0, \ f(1)=1, \ g(0)=0, \ g(1)=1$, then according to Cauchy's

CONTENT. QTN CAN HAVE IMAGES ALSO	mean value theorem, $\frac{f'(c)}{g'(c)} =$
((OPTION_A)) THIS IS MANDATORY OPTION	0
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	1
((OPTION_C)) This is optional	-1
((OPTION_D)) This is optional	2
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	В
((EXPLANATION)) This is also optional	

((MARKS))	1
QUESTION IS OF	-
HOW MANY	
MARKS? (1 OR 2	

OR 3 UPTO 10)	
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	If $f(x) = x^2 + 1$, $g(x) = x^3 + 1$ defined in $\begin{bmatrix} 0, 1 \end{bmatrix}$ such that $f(0) = 1$, $f(1) = 2$, $g(0) = 1$, $g(1) = 2$, then according to Cauchy's mean value theorem, $\frac{f'(c)}{g'(c)} =$
((OPTION_A)) THIS IS MANDATORY OPTION	0
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	1
((OPTION_C)) This is optional	2
((OPTION_D)) This is optional	0.5
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	В
((EXPLANATION)) This is also optional	

((MARKS))	1
((141) 1111(3))	<u> </u>

QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	If $f(x) = 2x^2$, $g(x) = 3x^3$ defined in $\begin{bmatrix} 0, 1 \end{bmatrix}$ such that $f(0) = 0$, $f(1) = 2$, $g(0) = 0$, $g(1) = 3$, then according to Cauchy's mean value theorem, $\frac{f'(c)}{g'(c)} =$
((OPTION_A)) THIS IS MANDATORY OPTION	$\frac{2}{3}$
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	$\frac{3}{2}$
((OPTION_C)) This is optional	$-\frac{2}{3}$
((OPTION_D)) This is optional	$-\frac{3}{2}$
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	A
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	If $f(x)=3x^2$, $g(x)=4x^3$ defined in $\begin{bmatrix} 0, 1 \end{bmatrix}$ such that $f(0)=0$, $f(1)=3$, $g(0)=0$, $g(1)=4$, then according to Cauchy's mean value theorem, $\frac{f'(c)}{g'(c)}=$
((OPTION_A)) THIS IS MANDATORY OPTION	0
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	0.5
((OPTION_C)) This is optional	0.75
((OPTION_D)) This is optional	1
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOIC E)) Either A or B or C or D or E	С
((EXPLANATION)) This is also optional	