


| Q 10. | Determine the conditions under which the function $y=x^{4}-6 x^{2}+1$ will have (i) a <br> maxima (ii) a minima.Also find out the maximum and minimum value of the function. | CO3 |  |
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| Q 11. | Solve the following system of equations, using cramer's rule: <br> $\mathrm{X}+2 \mathrm{Y}+3 \mathrm{Z}=-5$ <br> $3 \mathrm{X}+\mathrm{Y}-3 \mathrm{Z}=4$ <br> $-3 \mathrm{X}+4 \mathrm{Y}+7 \mathrm{Z}=-7$ | $\mathbf{C O 3}$ |  |
|  | Each Question carries 20 Marks <br> Q 12. | How matrix is different from determinant.Explain with eaxmples.Solve the following <br> equations by using inverse matrix method. <br> $x-2 y+z=4$ <br> $x-y-z=-2$ <br> $2 x+y+z=5$ | SECTION-C |

