BHARTIYA VIDYA MANDIR (BVM) COLLEGE OF MGMT. EDUCATION QUESTION BANK

MCA- II sem

$204\mbox{ - Computer Oriented Numerical \& Statistical Methods}$

Note:	Questions of 1.5 Marks.
Q.1 Q.2 Q.3 Q.4 Note:	Pivoting Forward Differences Backward Differences Lagrange's Interpolation formula. Questions of 2 Marks
Q.1	Explain the Central and Averaging Operators and their relationships.
Q.2	What do you mean by the Simultaneous linear equations? Explain with example.
Q.3	Explain the Simpson's 1/3rd with example.
Note:	Questions of 3 Marks.
Q.1	Solve the following equation Using with Gauss elimination Method
	4x+y+3z=11
	3x+4y+2z=11
	2x+3y+z=7
Q.2	Solve the following equation Using with Gauss Jordan Method
	x+2y+z=8
	2x+3y+4z=20
	4x+3y+2z=16
Q.3	Solve the following equation Using with Jacobi iterations Method
Q.4	2x+y+z=5 3x+5y+2z=15 2x+y+4z=8 Solve the following equation Using with Gauss Seidel iteration Method
·	27x+6y-z=85 6x+15y+2z=72 x+y+54z=110
Q.5	Evalute $\int_0^1 1/(1+x) dx$ correct to three decimal places using with simpson's 1/3 rules
Q.6	Evalute $\int_0^1 \sqrt{(1-x^2)} dx$ correct to three decimal places using with trapezoidal rules
0.7	Explain the Gaues's Central Difference Formula with Example.

Explain the Newton's Formula For interpolation with example.

Q.8