#### Student Exam No.

## **GANPAT UNIVERSITY**

# B. Tech. Semester: 3<sup>rd</sup> Mechatronics Engineering

## **Regular Examination November - December 2013**

### 2MC301 Numerical Analysis & Computer Programming

Time: 3 Hours

Total Marks: 70

- Instruction: 1. All questions are compulsory.
  - 2. Figures to the right indicate full marks.
  - 3. Assume suitable data if necessary.

### Section - I

Q-1 (a) Using Newton's Divided differences formula, evaluate f (8) and f (15) given

[06]

[12]

X	4	5	7	10	11	13
F(x)	48	100	294	900	1210	2028

(b) Using Euler' Method, Find an approximate value of Y corresponding to X = 1, given [06] that  $\frac{dy}{dx} = x + y$  and Y = 1 when x = 0.

### OR

Q-1 (a) If P is the pull required to lift a load W by means of a pulley block, Find a linear law of the [06] form  $P = m\omega + C$  connecting P and W, Using the following data:

Р	12	15	21	25
W	50	70	100	120
here P and W	are taken in K	g-wt. Compute	P when $W = 150$	kg.
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(b)	Solve, by Jacobi's iteration method up 6 <sup>th</sup> iteration, the equations				
	20X+Y-2Z = 17; $3X + 20Y-Z = -18$ ; $2X - 3Y+20Z = 25$ .				

- Q-2 (a) Derive formula for Simpson's 1/3 rd rule, [05] (b)  $F(x) = x^3 - x - 1 = 0$  find real root up to two place decimal. [04]
  - (c) What is basic difference between Euler's method & Modified Euler's method and [02] Find X from  $x^{2}-5 = 0$ .

OR

Q-2 (a) Derive Newton's forward formula.[05](b) Use the Trapezoidal rule to estimate the integral  $\int_0^2 e^{x^2} dx$  taking the 10 intervals.[04](c) Explain Interpolation and Curve fitting with small Graph.[02]

### Q-3 Write Any THREE questions.

- (a) Apply R-K fourth order method to find an approximate value of y when x=0.2 given that  $\frac{dy}{dx} = x + y$  and y = 1 when x= 0.
  - Find by Taylor's series method, the values of y at x = 0.1 and x = 0.2 to five places of decimals from  $\frac{dy}{dx} = x^2y 1$ , Y (0) = 1.
- (c) Apply Gauss elimination method to find to x, y, z. X+4Y-Z = -5, X+Y-6Z = -12, 3X-Y-Z = 4

(Page 1 of 2)

(4)	For given the value	s evaluate	f (9),	using	Lagrange	's formula	
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x $3$ $32$ $1452$ $2366$ $5202$ Section – II         Q-4 (a)       Explain Static Data member and Static member Function in details.       [06]         (b)       Write a program to print the Fibonacci series.       [06] $OR$ $OR$ [06]         Q-4 (a)       Explain Enumerated Data Type with appropriate program.       [06]         (b)       Write a program to find out mean value of given two numbers using friend function concept in class.       [06]         Q-5 (a)       Explain Overloading of Unary Operators in details.       [06]         (b)       Write a program in C++ to convert given feet distance into inches using + operator.       [06]         Q-5 (a)       What are the inheritance are used in OOP? Explain Any one in Detail.       [07]         (b)       Write a program in C++ which read student roll number, two subject marks and       [04]         Q-6       Write Any THREE questions.       [16]         (1)       Explain following terms:       a)       Constructor         (2)       Explain following terms:       a)       Ooperostructor         (3)       Explain following terms:       a)       Polymorphism         (b)       Data Abstraction and Encepsulation       Dipartic binding		()		5	7	11	13	17	
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(4) Write a Program to print following output using looping: 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5			c) Dyn	amic Binding					
(4) Write a Program to print following output doing to program 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5			d) Obje	ect Allu Class	following out	nut using loopi	ng:		
5555 555 55 5 5 END OF PAPER (Page 2 of 2)		(4	) Write a Pro	gram to print	Tonowing out	Jut using roop-	bno simbol X-X		
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