Final Practical Exam /viva

Subject: Mathematics Practical

BCA Second Semester

Time 30 Min.

F.M 20

Set A

- 1. What is MATLAB? Write its application.
- 2. Write any five commands used in MATLAB.
- 3. Find the roots of following simultaneous equation using the gauss seidel method 20x+y-2z=17
 - 3x+20y-z=-18

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- 2x-3y+20z=25
- 4. Evaluate the integral X⁴ within limits -3 to 3 using Simpson's 1/3 rule.
- , rule, .s 5. Create a script file to evaluate the derivative of the functions a) $f(x)=(x+2)(x^2+3)$

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Set B

- 1. Find the limit of the function $\lim X \ge 0$ $x^{2-9}/x+3$
- 2. Write a command to find derivative of (i) $f=3t^2+2t$ (ii) e^x
- **3.** Find all derivatives of $f=x^2+5x+6$ and also stationary point of f.
- 4. Find the area under the curve $y=x^3-5x-2$, X-axis and ordinates at x=0,X=1
- 5. Solve Algebraic Equations: (i) x-5=0 (ii) (x-2)(x-3)(x-8)=0
- 6. Write a matlab script file to solve $d_y/d_x + y = 1$
- 7. Solve the system of equations 3x+y=5, x-3y=5

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