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SASTRA » Numerical & Statistical Analysis

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Unit 1 - UNIT - I: Transcendental Polynomial & Simultaneous equations and Interpolations

| Course | e outline | Assessment 2 | |
|--------|---------------------------------------|--|-------------------------------|
| | JNIT - I : | The due date for submitting this assignment has passed. | Due on 2023-04-13, 23:59 IST. |
| | Polynomial & | As per our records you have not submitted this assignment. | Due on 2023-04-13, 23.39 131. |
| S | Simultaneous | 1) The operator E is | 1 point |
| | equations and | | , pom |
| | nterpolations () | ○ Forward difference operator ○ Backward difference operator | |
| • Lec | ture 1: Squaring | Shifting operator | |
| | thod for complex | None of the above | |
| root | ts - Muller, Birge- | No, the answer is incorrect. | |
| | ta method (week 1) | Score: 0 | |
| (uni | t?unit=1&lesson=2) | Accepted Answers: Shifting operator | |
| | ture 2 Squaring | | |
| | thod for complex | 2) When $f(x)=k$ then $\Delta f(x)=$ | 1 point |
| | ts - Graeffe's Root | $\bigcirc f(x+k)-f(x)$ | |
| | aring method (week unit? | ○ f(k)- f(0) | |
| , , | =1&lesson=3) | 0 0 1 | |
| | ture 3 - Muller, Birge | | |
| | ta and Graeffe's root | No, the answer is incorrect. Score: 0 | |
| | aring method (week | Accepted Answers: | |
| | unit? | 0 | |
| unit | =1&lesson=4) | 3) The formula for Ef(x) is | 1 point |
| Oui: | z: Assessment 1 | ○ f(x-h)-f(x+h) | |
| | sessment? | \bigcirc f(x)-f(x-h) | |
| nan | ne=16) | ○ f(x+h) | |
| Lec | ture 4 : Solution of | \bigcirc f(x+h)f(x) | |
| | ultaneous | No, the answer is incorrect. Score: 0 | |
| equ | ations – Gauss | Accepted Answers: | |
| | obi I method (week | $f(x+\dot{h})$ | |
| , , | unit? | 4) Which of the following is an unit operator | 1 point |
| unit | =1&lesson=5) | 01 | , panie |
| | ture 5 - Solution of | ○ Ñ | |
| | ultaneous | ○µ | |
| | ations - Gauss del method (week 2) | ○ E | |
| | t?unit=1&lesson=6) | No, the answer is incorrect. | |
| 01.00 | turo 6 : Drobleme in | Score: 0 Accepted Answers: | |
| | ture 6 : Problems in uss Jacobi and | 1 | |
| | iss seidel methods | 5) Find the equanth term of the requence 2 0 29 65 106 217 | 1 point |
| | ek 2) (unit? | 5) Find the seventh term of the sequence 2, 9, 28, 65, 126, 217 | т рын |
| , | =1&lesson=7) | 0 344 | |
| OL ec | ture 7 : Finite | 0 434 0 440 | |
| | erence operator – | ○ 443 ○ 444 | |
| | ation between | No, the answer is incorrect. | |
| | rators (week 2) | No, the answer is incorrect. Score: 0 | |
| (uni | t?unit=1&lesson=8) | Accepted Answers: | |
| ○ Lec | ture 8 : Finite | 344 | |
| Diff | erence operator - | 6) Find the first term of the series whose second and subsequent terms are 8, 3, 0, -1, 0, | 1 point |

| | oroblems (week 2) unit?unit=1&lesson=9) | □ 15□ 10 | |
|----------|--|---|------|
| | , | © 8 | |
| | Quiz: Assessment – 2 | 0 11 | |
| | assessment? | | |
| r | name=17) | No, the answer is incorrect. Score: 0 | |
| 0 | ecture 9 : Interpolation | Accepted Answers: | |
| - | Introduction (week 3) | 15 | |
| | unit? | 7) Find $y(-1)$ if $y(0) = 2$, $y(1) = 9$, $y(2) = 28$, $y(3) = 65$, $y(4) = 126$ and $y(5) = 217$. | 1 pc |
| | ınit=1&lesson=10) | | . , |
| | | 01 | |
| | Lecture 10 :Newton's | O -1 | |
| | orward and backward | O 0 | |
| | nterpolation (week 3) | O -3 | |
| | unit? | No, the answer is incorrect. | |
| ι | ınit=1&lesson=11) | Score: 0 Accepted Answers: | |
| 0 | ecture 11: | 1 | |
| ı | nterpolation - problems | | |
| | week 3) (unit? | 8) Solve by Gauss-Seidel method: 30x 2y + 3z = 75; x + 17y 2z = 48; x + y + 9z = 15 | 1 pc |
| | ınit=1&lesson=12) | | |
| | ŕ | x = 2.58; y = 2.798; z = 1.069 | |
| | Quiz: Assessment 3 | x = 2.5; y = 2.824; z = 1.667 | |
| | assessment? | $0 \times 2.05; y = 2.84; z = 1.7$ | |
| r | name=18) | x = 2.55; y = 2.84; z = 1.72 | |
| | | No, the answer is incorrect. | |
| | UNIT - II: | Score: 0 Accepted Answers: | |
| | Numerical | x = 2.58; y = 2.798; z = 1.069 | |
| | differentiation and | | |
| \oplus | Integration () | 9) If the system of equations are 5x-y+z=10,2x+4y+z=12 and x+y+5z=1, then the first iteration values by Gauss-Seidel method are | 1 pc |
| | | ○ 2,1,1 | |
| | UNIT - III : | 3,2,1 | |
| | Numerical | 0 2,2,-1 | |
| | Solutions of ODE | 2,2,-0.6 | |
| \oplus | 0 | No, the answer is incorrect. | |
| | | No, the allower is incorrect. Score: 0 | |
| | UNIT - IV : | Accepted Answers: | |
| | Statistical | 2,2,-0.6 | |
| | distributions and | | |
| | Test of hypothesis | 10) Comment on the statement: Gauss-Seidel method always converges | 1 po |
| \oplus | | ○ True | |
| Ш | 0 | ○ False | |
| | | o no idea | |
| | Unit V : Non- | onone of the above | |
| | parametric | No, the answer is incorrect. | |
| | statistical | Score: 0 | |
| _ | methods & Time | Accepted Answers: False | |
| \oplus | series analysis () | i also | |
| | | 11) Convergence in Gauss-seidel is rapid when compared with convergence in Gauss-Jacobi method | 1 po |
| | | | . 20 |
| | | ○ False | |
| | | O Depends on the problem | |
| | | ○ True | |
| | | O None of the above | |
| | | No, the answer is incorrect. | |
| | | Score: 0 | |
| | | Accepted Answers: True | |
| | | | |
| | | 12) Gauss Jacobi method is used to solve | 1 pc |
| | | | |
| | | O Differential equations | |
| | | Algebraic equations | |
| | | system of simultaneous equations | |
| | | onone of the above | |
| | | No, the answer is incorrect. | |
| | | Score: 0 | |
| | | Accepted Answers: system of simultaneous equations | |
| | | Gystem of offinial roots oquations | |
| | | 13) Gauss Jacobi's method is known as | 1 pc |
| | | | |
| | | Simultaneous displacement method | |
| | | Displacement method | |

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| Simultaneous method | |
|--|---------|
| Oisplacement method | |
| No, the answer is incorrect. Score: 0 | |
| Accepted Answers: Simultaneous displacement method | |
| 14) Gauss Seidel method is used to solve | 1 point |
| system of simultaneous equations | |
| ○ algebraic quations | |
| O Differential equations | |
| onone of the above | |
| No, the answer is incorrect. Score: 0 | |
| Accepted Answers: system of simultaneous equations | |
| | |
| 15) Gauss-Jacobi method is successful if | 1 point |
| Large coefficients are not along the leading diagonal of the coefficient matrix | |
| on condition on large coefficients of the coefficient matrix | |
| Large coefficients are along the leading diagonal of the coefficient matrix | |
| O None of the above | |
| No, the answer is incorrect. Score: 0 | |
| Accepted Answers: Large coefficients are along the leading diagonal of the coefficient matrix | |
| | |





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