

CC 07 (Numerical Methods & Numerical Methods Lab)

F.M: 10 TIME: 30 MIN

* Required

1. Email *

2. NAME *

3. UNIVERSITY REGISTRATION NUMBER *

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Untitled Section

5.

1. In which of the following method, we approximate the curve of solution by the tangent in each interval.

- a. Picard's method
c. Newton's method

- b. Euler's method
d. Runge Kutta method

Mark only one oval.

- A
 B
 C
 D

6.

2. The number of significant digits in the number 204.020050 is

- a. 5 b. 6 c. 8 d. 9

Mark only one oval.

A

B

C

D

7.

3. In general the ratio of truncation error to that of round off error is

- a. 2:1 b. 1:1 c. 1:2 d. 1:3

Mark only one oval.

A

B

C

D

8.

4. The convergence of which of the following method is sensitive to starting value?

- a. False position
b. Gauss seidal method
c. Newton-Raphson method
d. All of these

Mark only one oval.

A

B

C

D

9.

5. Order of convergence of Regula-Falsi method is

- a. 1.321
- b. 1.618
- c. 2.231
- d. 2.312

Mark only one oval.

- A
- B
- C
- D

10.

6. In the Gauss elimination method for solving a system of linear algebraic equations, triangularization leads to

- a. Diagonal matrix
- b. Lower triangular matrix
- c. Upper triangular matrix
- d. Singular matrix

Mark only one oval.

- A
- B
- C
- D

11.

- 7.** Newton-Raphson method is useable to?
- Algebraic equations only
 - Transcendental equations only
 - Both algebraic and Transcendental Equations
 - Both algebraic and transcendental and also used when the roots are complex

Mark only one oval.

- A
- B
- C
- D

12.

- 8.** The Newton Raphson method is also called as _____
- Tangent method
 - Secant method
 - Chord method
 - Diameter method

Mark only one oval.

- A
- B
- C
- D

13.

- 9.** The fixed point iterative method converges.
- Linear.
 - Quadratic
 - Cubic
 - None of these.

Mark only one oval.

- A
- B
- C
- D

14.

- 10.** Errors may occur in performing numerical computation on the computer due to
- a. Rounding errors
 - b. Power fluctuation
 - c. Operator fatigue
 - d. All of these

Mark only one oval.

A

B

C

D

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