Started	on Wednesday, 27 December 2023, 12:31 PM
St	ate Finished
Completed	on Wednesday, 27 December 2023, 12:50 PM
Time tal	ken 19 mins 35 secs
Gra	ade 26 out of 30 (87%)
Question 1	
Correct	
Mark 2 out of 2	
Matrix addition	and matrix multiplication both are commutative.
O True	
■ False	
Question 2 Correct Mark 2 out of 2	
Cramer's Rule i	s not suitable for which type of problems?
a. None	
	systems with 4 unknowns
c. System	ns with two unknowns
d. Large S	Systems ✔
Your answer is	correct.
The correct ans	ewer is:
Large Systems	

Question 3
Correct
Mark 2 out of 2

Find the values of x, y, z in the following system of equations by Gauss Elimination Method.

$$2x + y - 3z = -10$$
  
 $-2y + z = -2$   
 $z = 6$ 

- a. 3,4,6
- b. 2,7,6
- o. None
- d. 2,4,6 

  ✓

Your answer is correct.

The correct answer is:

2,4,6

Question 4

Correct

Mark 2 out of 2

if X,Y,Z, are square matrices of (nxn) and

$$X = YZY^{-1}$$
 then  $det(X) = Det(Z)$ 

■ True

False

The correct answer is 'True'.

Question 5
Correct
Mark 2 out of 2

The equation f(x) is given as  $x^2$ -4=0. Considering the initial approximation at x=6 then the value of next approximation correct upto 2 decimal places is given

as \_\_\_\_\_

- a. None
- b. 3.33 

  ✓
- o. 1.33
- od. 2.33
- e. 4.33

Your answer is correct.

The correct answer is:

3.33

## Question $\bf 6$

Incorrect

Mark 0 out of 2

If a function is real and continuous in the region from a to b and f(a) and f(b) have opposite signs then there is no real root between a and b.

True X

False

The correct answer is 'False'.

## Question 7

Correct

Mark 2 out of 2

The solution of  $x^2 + 4 = 0$  is

- a. +2 or -2
- b. None 

  ✓
- c. -2
- Od. 2

Your answer is correct.

The correct answer is:

None

Question 8
Correct
Mark 2 out of 2

The solution to the equation

$$x^2 - 5x + 6 = 0$$

- a. 3
- b. 2 and 3 

  ✓
- o. 2
- d. No solution

Your answer is correct.

The correct answer is:

2 and 3

Question 9

Correct

Mark 2 out of 2

The equation f(x) is given as  $x^3 - x^2 + 4x - 4 = 0$ . Considering the initial approximation at x=2 then the value of next approximation correct upto 2 decimal places is given as \_\_\_\_\_

- a. 1.33 

  ✓
- b. None
- o. 1.5
- d. 0.67
- e. 1.00

Your answer is correct.

The correct answer is:

1.33

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Question 10	
Correct	
Mark 2 out of 2	
The tangent Method is called	J
a. None	
Ob. Bisection	
d. Secant Method	
Your answer is correct.	
The correct answer is:	
Newton Method	
Question <b>11</b>	
Incorrect	
Mark 0 out of 2	
Determine the number of sol	lutions of L.S.
x-y=12	
x+y=0	
•	
a. many solutions	
b. no solution X	
c. one solution	
d. None	
Your answer is incorrect.	
The correct answer is:	

one solution

Question 12
Correct
Mark 2 out of 2

The Det of a matrix M=  $\begin{bmatrix} 0 & 4 & 0 \\ 2 & 50 & 2 \\ 1 & -2 & -8 \end{bmatrix}$ 

- a. 70
- b. 72 

  ✓
- o. 50
- od. None

Your answer is correct.

The correct answer is:

72

Question 13

Correct

Mark 2 out of 2

for a system of m linear equations and n variables Cramer's Rule is applicable when

- a. None
- b. m=n and Coefficient matrix is singular
- c. m<>n only

Your answer is correct.

The correct answer is:

m=n and Coefficient matrix is non singular

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Question 14	
Correct	
Mark 2 out of 2	
given the following fu	action f(x) on the interval [2,5] the first iteration using the
$5x^2 - 5x + 4$	
a. 0.687	
ob. 2.25	
c. Bisection Ca	not be applied ✔
○ d0.687	
Your answer is correct	
The correct answer is	
Bisection Cannot be a	pplied
Question 15	
Correct	
Mark 2 out of 2	
The addition of matric	es is only possible if they are of the same order.
True   ✓	
○ False	

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The correct answer is 'True'.