

Question **5**

Answer saved

Marked out of 1.00

[BT-3, CO-5, PO-4]

Formula of t test for single mean is given by

Select one:

- ☒ a. $t = (\bar{x} - \mu)/(S / \sqrt{n})$
- ☐ b. $t = (\bar{x} - \mu)/(\sigma / \sqrt{n})$
- ☐ c. $t = (\bar{x} + \mu)/(\sigma / \sqrt{n})$
- ☐ d. $t = (\bar{x} + \mu)/(S / \sqrt{n})$

[Clear my choice](#)

Question **6**

Answer saved

Marked out of 1.00

[BT-4, CO-2, PO-4]

Stirling’s formula is the average of

Select one:

- ☐ a. Gauss forward and Newton forward formula
- ☐ b. Gauss forward and Newton backward formula
- ☒ c. Gauss forward and Backward formula
- ☐ d. Newton forward and Newton backward formula

[Clear my choice](#)

Question **7**

Answer saved

Marked out of 1.00

[BT-5, CO-4, PO-4]

Given $dy/dx = (y - x)/(y + x)$, $y(0)=1$. The value of $y(0.1)$ when $h=0.1$, by using Euler’s method is

Select one:

- ☐ a. 0.9
- ☐ b. 1
- ☒ c. 0.1
- ☐ d. 1.1

[Clear my choice](#)

Question **8**

Answer saved

Marked out of
1.00

[BT-2, CO-5, PO-3]

Time series is used in

Select one:

- ☐ a. Economic forecasting
- ☐ b. Sales forecasting
- ☐ c. Stock market analysis
- ☒ d. All of these

[Clear my choice](#)Question **9**

Answer saved

Marked out of
1.00

[BT-4, CO-3, PO-4]

Euler-Maclaurin's formula gives the correction in

Select one:

- ☐ a. Simpson's 3/8 rule
- ☐ b. Bool's rule
- ☐ c. Simpson's 1/3 rule
- ☒ d. Trapezoidal rule

[Clear my choice](#)Question **10**

Answer saved

Marked out of
1.00

[BT-1, CO-3, PO-4]

Boole's formula is given by

Select one:

- ☒ a. $\int_a^b y dx = 2h/45[y_0 + 5y_1 + y_2 + 6y_3 + y_4 + 5y_5 + y_6 + \dots]$
- ☐ b. $\int_a^b y dx = h/2[(y_0 + y_n) + 2(y_1 + y_2 + y_3 + \dots + y_{n-1})]$
- ☐ c. $\int_a^b y dx = 2h[y_0 + 5y_1 + y_2 + 6y_3 + y_4 + 5y_5 + y_6 + \dots]$
- ☐ d. $\int_a^b y dx = 2h/45[7y_0 + 32y_1 + 12y_2 + 32y_3 + 7y_4 + \dots]$

[Clear my choice](#)Question **11**

Answer saved

Marked out of
1.00

[BT-4, CO-2, PO-4]

If 3rd order differences are constants, we will get a polynomial of degree

Select one:

- ☐ a. 2
- ☐ b. 1
- ☒ c. 3
- ☐ d. 4

[Clear my choice](#)

Question **12**

Answer saved

Marked out of 1.00

[BT-4, CO-4, PO-4]

The best representative curve to the given set of points for which sum of the square of the errors is a minimum is known as

Select one:

- ☒ a. Principe of least square
- ☐ b. Linear curve
- ☐ c. Approximating curve
- ☐ d. Curve fitting

[Clear my choice](#)

Question **13**

Answer saved

Marked out of 1.00

[BT-4, CO-3, PO-4]

If there are 6 intervals, which formula is not applicable?

Select one:

- ☒ a. Bool's rule
- ☐ b. Trapezoidal rule
- ☐ c. Weddle's rule
- ☐ d. Simpson's rule

[Clear my choice](#)

Question **14**

Answer saved

Marked out of 1.00

[BT-4, CO-4, PO-3]

There is a class of methods called - - - - which do not require the calculations of higher order derivatives and give greater accuracy.

Select one:

- ☐ a.
Euler's method
- ☐ b. Taylor series method
- ☒ c.
Runge-Kutta method
- ☐ d.

Euler's modified method

[Clear my choice](#)

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Question **15**

Answer saved

Marked out of 1.00

[BT-3, CO-2, PO-4]
To apply Gauss forward interpolation formula, the value of $u = (x - x_0)/h$ must satisfies

Select one:

- ☐ a. $-1 < u < 0$
- ☐ b. $-1 < u < 1$
- ☒ c. $0 < u < 1$
- ☐ d. $-2 < u < -1$

[Clear my choice](#)

Question **16**

Answer saved

Marked out of 1.00

[BT-1, CO-3, PO-4]
Simpson's 1/3 formula is given by

Select one:

- ☒ a. $\int_a^b y dx = h/3[(y_0 + y_n) + 4(y_1 + y_3 + \dots + y_{n-1}) + 2(y_2 + y_2 + \dots + y_{n-2})]$
- ☐ b. $\int_a^b y dx = h/3[(y_0 + y_n) + 3(y_1 + y_3 + \dots + y_{(n-1)}) + 2(y_2 + y_2 + \dots + y_{n-2})]$
- ☐ c. $\int_a^b y dx = h/3[(y_0 + y_n) + 4(y_1 + y_3 + \dots + y_{n-1}) + 4(y_2 + y_2 + \dots + y_{n-2})]$
- ☐ d. $\int_a^b y dx = h/2 [(y_0 + y_n) + 2(y_1 + y_2 + y_3 + \dots + y_{(n-1)})]$

[Clear my choice](#)

Question **17**

Answer saved

Marked out of 1.00

[BT-2, CO-5, PO-3]
Which is/are the component of a time series?

Select one:

- ☐ a. Neither secular trend nor seasonal variation
- ☒ b. Secular trend and seasonal variation both
- ☐ c. Seasonal variation
- ☐ d. Secular trend

[Clear my choice](#)

Question **18**

Answer saved

Marked out of
1.00

[BT-4, CO-4, PO-3]

The simplest method in finding the approximate solutions to the first order equation is

Select one:

- ☐ a. Runge Kutta method
- ☐ b. Taylor's series method
- ☐ c. Modified Euler's method
- ☒ d. Euler's method

[Clear my choice](#)Question **19**

Answer saved

Marked out of
1.00

[BT-3, CO-4, PO-4]

The second order Runge-Kutta method is

Select one:

- ☐ a. Euler's method
- ☐ b. Guass method
- ☐ c. Taylor series method
- ☒ d. modified Euler's method

[Clear my choice](#)Question **20**

Answer saved

Marked out of
1.00

[BT-2, CO-2, PO-4]

Which of the following relation is true?

Select one:

- ☐ a. $\delta = \frac{1}{3}(E^{\frac{1}{2}} + E^{-\frac{1}{2}})$
- ☐ b. $\delta = E^{\frac{1}{2}} + E^{-\frac{1}{2}}$
- ☒ c. $\delta = \frac{1}{2}(E^{\frac{1}{2}} + E^{-\frac{1}{2}})$
- ☐ d. $\delta = \frac{1}{2}(E^{\frac{1}{2}} - E^{-\frac{1}{2}})$

[Clear my choice](#)Question **21**

Answer saved

Marked out of
1.00

[BT-3, CO-1, PO-3]

The value of $0.5102E57 + 0.4960E57$ is

Select one:

- ☐ a. 0. 1006E70
- ☒ b. 1.0062E57
- ☐ c. 0.1006E57
- ☐ d. 0. 1006E58

[Clear my choice](#)

Question **22**

Answer saved

Marked out of 1.00

[BT-5, CO-1, PO-4]
Iterative formula to find the value of $\sqrt[N]{x}$ by Newton's method is

Select one:

- ☒ a. $x_{n+1} = (x_n^2 - N) / (2x_n)$
- ☐ b. $x_{n+1} = (x_n^3 + N) / (2x_n)$
- ☐ c. $x_{n+1} = (x_n^2 + N) / (2x_n)$
- ☐ d. $x_{n+1} = (x_n^3 - N) / (2x_n)$

[Clear my choice](#)

Question **23**

Answer saved

Marked out of 1.00

[BT-4, CO-5, PO-4]
If $t_{cal} < t_{tab}$,

Select one:

- ☐ a. null hypothesis rejected
- ☒ b. null hypothesis accepted
- ☐ c. incomplete information to conclude anything about hypothesis
- ☐ d. alternate hypothesis rejected

[Clear my choice](#)

Question **24**

Answer saved

Marked out of 1.00

[BT-3, CO-5, PO-3]
A region in which null hypothesis H_0 is rejected is called as

Select one:

- ☐ a. feasible region
- ☐ b. confidence region
- ☒ c. critical region
- ☐ d. statistical region

[Clear my choice](#)



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Question 25

Answer saved

Marked out of
1.00**[BT-2, CO-1, PO-3]**Convergence criterion of iteration method by writing the given equation $f(x) = 0$ in the form $x = \phi(x)$ is

Select one:

- ☐ a. $|\phi(x)| < 1$
- ☐ b. $|\phi'(x)| < 1$
- ☒ c. $|f'(x)| < 1$
- ☐ d. $|f(x)| < 1$

[Clear my choice](#)**Question 26**

Answer saved

Marked out of
1.00**[BT-2, CO-1, PO-3]**If in interval (a, b) , there is a root of any equation, then which condition must be true

Select one:

- ☐ a. $f(a)$ and $f(b)$ both are positive
- ☒ b. $f(a)$ and $f(b)$ are of opposite sign
- ☐ c. $f(a)$ and $f(b)$ are of same sign
- ☐ d. $f(a)$ and $f(b)$ both are negative

[Clear my choice](#)**Question 27**

Answer saved

Marked out of
1.00**[BT-4, CO-5, PO-4]**

Student's t-test is applicable in case of

Select one:

- ☐ a. large samples
- ☒ b. small samples
- ☐ c. for sample of size between 100 and 200
- ☐ d. for sample of size between 200 and 300

[Clear my choice](#)

Question **28**

Answer saved

Marked out of
1.00

[BT-5, CO-5, PO-4]

In an unpaired samples t-test with sample sizes $n_1 = 11$ and $n_2 = 11$, the value of tabulated t should be obtained for:

Select one:

- ☐ a. 22 degrees of freedom
- ☐ b. 21 degrees of freedom
- ☒ c. 20 degrees of freedom
- ☐ d. 10 degrees of freedom

[Clear my choice](#)Question **29**

Answer saved

Marked out of
1.00

[BT-4, CO-3, PO-3]

To apply Boole's rule, number of subintervals must be

Select one:

- ☐ a. multiple of 3
- ☐ b. multiple of 6
- ☐ c. multiple of 2
- ☒ d. multiple of 4

[Clear my choice](#)Question **30**

Answer saved

Marked out of
1.00

[BT-3, CO-1, PO-4]

If $u = (4x^2y^3)/z^4$ and errors in x,y,z are 0.001 at $x=y=z=1$. Then maximum relative error in u is

Select one:

- ☐ a. 0.09
- ☐ b. 0.9
- ☒ c. 0.009
- ☐ d. 0.1

[Clear my choice](#)Question **31**

Answer saved

Marked out of
1.00

[BT-5, CO-5, PO-4]

The probability of exactly one head in toss of three coin is

Select one:

- ☒ a. 3/8
- ☐ b. 1/8
- ☐ c. 1/2
- ☐ d. 3/4

[Clear my choice](#)

Question **32**

Answer saved

Marked out of 1.00

[BT-4, CO-2, PO-3]

If interpolation is required at a point which lies in the last of the given range of x, which formula will be applicable

Select one:

- ☐ a. Newton's forward formula
- ☐ b. Guass forward formula
- ☒ c. Newton's backward formula
- ☐ d. Guass backward formula

[Clear my choice](#)

Question **33**

Answer saved

Marked out of 1.00

[BT-3, CO-4, PO-4]

Least square methods are used to fit

Select one:

- ☐ a. Circle
- ☒ b. Straight line and parabola both
- ☐ c. Parabola only
- ☐ d. Straight line only

[Clear my choice](#)

Question **34**

Answer saved

Marked out of 1.00

[BT-4, CO-4, PO-3]

From the following which one gives more accurate value

Select one:

- ☐ a. Both Euler's and modified Euler's method
- ☐ b. Neither Euler's and nor modified Euler's method
- ☐ c. Euler's method
- ☒ d. Euler's modified method

[Clear my choice](#)

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Question 35

Answer saved

Marked out of
1.00

[BT-1, CO-2, PO-4]

The technique for computing the value of the function outside the given range of argument is called

Select one:

- ☐ a. interpolation
- ☒ b. extrapolation
- ☐ c. inverse interpolation
- ☐ d. curve fitting

[Clear my choice](#)**Question 36**

Answer saved

Marked out of
1.00

[BT-5, CO-2, PO-3]

$$E^2 f(x) = ?$$

Select one:

- ☒ a. $f(x+2h)$
- ☐ b. $f(x-h)$
- ☐ c. $f(x-2h)$
- ☐ d. $f(x+h)$

[Clear my choice](#)**Question 37**

Answer saved

Marked out of
1.00

[BT-3, CO-2, PO-3]

How much maximum order differences are possible, if there are 6 values of dependent variable

Select one:

- ☒ a. 5th order
- ☐ b. 2nd order
- ☐ c. 4th order
- ☐ d. 3th order

[Clear my choice](#)

Question **38**

Answer saved

Marked out of
1.00

[BT-5, CO-1, PO-4]

What is the value of $f(1)$ from the equation $x - \cos x = 0$

Select one:

- ☒ a. 0.4597
- ☐ b. 0.00152
- ☐ c. 0.000152
- ☐ d. 0.0152

[Clear my choice](#)Question **39**

Answer saved

Marked out of
1.00

[BT-4, CO-3, PO-3]

If there are 8 intervals, which formula is not applicable?

Select one:

- ☒ a. Weddle's rule
- ☐ b. Trapezoidal rule
- ☐ c. Simpson's 1/3 rule
- ☐ d. Bool's rule

[Clear my choice](#)Question **40**

Answer saved

Marked out of
1.00

[BT-4, CO-2, PO-3]

Regarding factorial notations, which one is true?

Select one:

- ☐ a. $x^{(3)} = x(x+1)(x-2), h=1$
- ☐ b. $x^{(3)} = x(x+1)(x+2), h=1$
- ☒ c. $x^{(3)} = x(x-1)(x-2), h=1$
- ☐ d. $x^{(3)} = (x-1)(x+1)(x+2), h=1$

[Clear my choice](#)Question **41**

Answer saved

Marked out of
1.00

[BT-3, CO-3, PO-3]

When derivatives requires at the beginning of the table values, we use the formula obtained from

Select one:

- ☐ a. Stirling formula
- ☐ b. Guass interpolation formula
- ☒ c. Newton forward interpolation formula
- ☐ d. Newton backward interpolation formula

[Clear my choice](#)

Question **42**

Answer saved

Marked out of 1.00

[BT-4, CO-5, PO-3]

Test used for goodness of fit is

Select one:

- ☐ a. F-test
- ☐ b. Z-test
- ☒ c. chi-square test
- ☐ d. t-test

[Clear my choice](#)

Question **43**

Answer saved

Marked out of 1.00

[BT-4, CO-1, PO-2]

If relative error of a number is 3.264×10^{-9} then its percentage error is

Select one:

- ☒ a. 3.264×10^{-7}
- ☐ b. 3.264×10^{-13}
- ☐ c. 3.264×10^{-9}
- ☐ d. 3.264×10^{-12}

[Clear my choice](#)

Question **44**

Answer saved

Marked out of 1.00

[BT-5, CO-1, PO-3]

Third approximation to the root of equation $x^3-x-4=0$ by applying bisection method in the interval (1, 2) is

Select one:

- ☐ a. 1.75
- ☐ b. 1.875
- ☐ c. 1.57
- ☒ d. 1.785

[Clear my choice](#)



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Question **45**

Answer saved

Marked out of 1.00

[BT-5, CO-3, PO-4]

If $a=0$, $b=1$ and number of subintervals are 5, what is the value of h ?

Select one:

- ☐ a. 0.1
- ☒ b. 0.2
- ☐ c. 1
- ☐ d. 5

[Clear my choice](#)

Question **46**

Answer saved

Marked out of 1.00

[BT-5, CO-3, PO-4]

If $y = 1/x$, $y' = ?$

Select one:

- ☐ a. $-1/x$
- ☐ b. $1/x^2$
- ☐ c. $1/x$
- ☒ d. $\backslash (-1/x^2) \backslash$

[Clear my choice](#)

Question **47**

Answer saved

Marked out of 1.00

[BT-5, CO-1, PO-4]

To apply Gauss Seidel method , equations $\backslash (2x+36y-z=12 , \sim\sim 8x-2y+3z=15, \sim\sim 2x-4y+9z=13 \backslash)$ are rewritten as

Select one:

- ☒ a. $\backslash (x=1/8 [15+2y-3z], y=1/35 [12-2x+z], z=1/9 [13-2x+4y] \backslash)$
- ☐ b. $\backslash (x=1/9 [15+2y-3z], y=1/36 [12-2x+z], z=1/9 [13-2x+4y] \backslash)$
- ☐ c. $\backslash (x=1/2 [12-36y+z], y=(-1)/2 [15-8x-3z], z=1/9 [13-2x+4y] \backslash)$
- ☐ d. $\backslash (x=1/8 [15+2y-3z], y=1/36 [12-2x+z], z=1/9 [13-2x+4y] \backslash)$

[Clear my choice](#)

Question **48**
Answer saved
Marked out of 1.00

[BT-1, CO-4, PO-3]
Equations by solving least square methods are known as

- Select one:
- ☒ a. Normal equations
 - ☐ b. Auxiliary equations
 - ☐ c. Exponential equations
 - ☐ d. Standard equations

[Clear my choice](#)

Question **49**
Answer saved
Marked out of 1.00

[BT-2, CO-4, PO-3]
The method involves the derivative of different orders is

- Select one:
- ☐ a. Euler's method
 - ☐ b. Runge Kutta method
 - ☐ c. modified Euler's method
 - ☒ d. Taylor's series method

[Clear my choice](#)

Question **50**
Answer saved
Marked out of 1.00

[BT-5, CO-2, PO-4]
For the given distributed data find the value of $(\Delta^2 y_0)$

x	2	4	6	8
y	1	4	8	10

Select one:

- ☐ a. 3
- ☐ b. 2
- ☒ c. 1
- ☐ d. 4

[Clear my choice](#)

Question **51**
Answer saved
Marked out of 1.00

[BT-4, CO-1, PO-4]
If derivative of the function becomes zero, which of the method is not applicable to calculate the root of the given equation?

- Select one:
- ☐ a. False position method
 - ☐ b. Bisection method
 - ☒ c. Newton's method
 - ☐ d. Guass method

[Clear my choice](#)

Question **52**

Answer saved

Marked out of 1.00

[BT-5, CO-3, PO-4]

If there are 7 ordinates, how many intervals will be there?

Select one:

- ☒ a. 6
- ☐ b. 9
- ☐ c. 7
- ☐ d. 8

[Clear my choice](#)

Question **53**

Answer saved

Marked out of 1.00

[BT-4, CO-4, PO-3]

The Euler's method has limited application due to its

Select one:

- ☐ a. less accuracy
- ☐ b. due to other reasons
- ☒ c. both due to tough procedure and less accuracy
- ☐ d. tough procedure

[Clear my choice](#)

Question **54**

Answer saved

Marked out of 1.00

[BT-4, CO-2, PO-4]

Which formula gives the best result when the value of $u=(x-x_0)/h$ is exactly 1/2?

Select one:

- ☐ a. Newton's formula
- ☐ b. Stirling's formula
- ☒ c. Bessel's formula
- ☐ d. Laplace Everett's formula

[Clear my choice](#)



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Question **55**

Answer saved

Marked out of 1.00

[BT-4, CO-1, PO-2]

To apply which one of the method, we write the given equation $f(x) = 0$ as $x = \emptyset(x)$

Select one:

- ☒ a. Newton's method
- ☐ b. False position method
- ☐ c. Iteration method
- ☐ d. Guass method

[Clear my choice](#)

Question **56**

Answer saved

Marked out of 1.00

[BT-1, CO-5, PO-3]

Statistical Constants such as mean or variance measured for population are known as

Select one:

- ☒ a. parameter
- ☐ b. statistic
- ☐ c. variable
- ☐ d. trend

[Clear my choice](#)

Question **57**

Answer saved

Marked out of 1.00

[BT-5, CO-5, PO-4]

A die is thrown 120 times and the results of these throws are given as

Number appeared on the die	1	2	3	4	5	6
Frequency	16	30	22	18	14	20

If we have to test whether the given die is biased or not, the expected frequencies for each digit is

Select one:

- ☐ a. 120
- ☐ b. 6
- ☒ c. 20
- ☐ d. 30

[Clear my choice](#)

Question **58**

Answer saved

Marked out of
1.00

[BT-1, CO-4, PO-3]

The general problem of finding equations of approximating curves which fit a given data is called

Select one:

- ☒ a. curve fitting
- ☐ b. approximating curve
- ☐ c. linear form
- ☐ d. quadratic form

[Clear my choice](#)Question **59**

Answer saved

Marked out of
1.00

[BT-2, CO-3, PO-4]

First derivatives formula at the point $x = x_n$ is given by

Select one:

- ☐ a. $dy/dx = 1/h[\nabla y_n - 1/2\nabla^2 y_n + 1/3\nabla^3 y_n - 1/4\nabla^4 y_n + \dots]$
- ☐ b. $dy/dx = 1/h[\nabla y_n - 1/2\nabla^2 y_n - 1/3\nabla^3 y_n - 1/4\nabla^4 y_n - \dots]$
- ☐ c. $dy/dx = [\nabla y_n + 1/2\nabla^2 y_n + 1/3\nabla^3 y_n + 1/4\nabla^4 y_n + \dots]$
- ☒ d. $dy/dx = 1/h[\nabla y_n + 1/2\nabla^2 y_n + 1/3\nabla^3 y_n + 1/4\nabla^4 y_n + \dots]$

[Clear my choice](#)Question **60**

Answer saved

Marked out of
1.00

[BT-4, CO-5, PO-3]

Any hypothesis which is tested for the purpose of rejection under the assumption that it is true is called

Select one:

- ☐ a. composite hypothesis
- ☐ b. alternative hypothesis
- ☐ c. statistical hypothesis
- ☒ d. null hypothesis

[Clear my choice](#)Question **61**

Answer saved

Marked out of
1.00

[BT-1, CO-1, PO-4]

False position formula to find a real root of an equation is given by

Select one:

- ☐ a. $x_1 = (af(b) + bf(a))/(f(b) + f(a))$
- ☐ b. $x_{n+1} = x_n + f(x_n)/f'(x_n)$
- ☐ c. $x_{n+1} = x_n - f(x_n)/f'(x_n)$
- ☒ d. $x_1 = (af(b) - bf(a))/(f(b) - f(a))$

[Clear my choice](#)

Question **62**

Answer saved

Marked out of 1.00

[BT-2, CO-2, PO-3]

Which formula is not applicable when the arguments are not at equal intervals

Select one:

- ☐ a. Newton's divided difference formula
- ☒ b. Stirling's formula
- ☐ c. All are correct
- ☐ d. Lagrange's formula

[Clear my choice](#)

Question **63**

Answer saved

Marked out of 1.00

[BT-4, CO-4, PO-3]

$y(x+h)=y(x)+hf(x,y)$ is referred as _____ method

Select one:

- ☒ a. Euler's
- ☐ b. Runge Kutta method
- ☐ c. Taylor series
- ☐ d. Modified Euler's

[Clear my choice](#)

Question **64**

Answer saved

Marked out of 1.00

[BT-3, CO-3, PO-4]

Which integration formula can be used to find the sum of series up to n terms?

Select one:

- ☒ a. Euler Maclaurin's formula
- ☐ b. Simpson's 1/3 formula
- ☐ c. Bool's rule
- ☐ d. Weddle's formula

[Clear my choice](#)



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