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Started on Saturday, 8 October 2022, 11:01 AM

State Finished

Completed on Saturday, 8 October 2022, 11:25 AM

Time taken 24 mins 30 secs

Grade 10.00 out of 15.00 (67%)

Question **1**

Complete

Mark 0.00 out of 1.00

How would you calculate $\log(x^{20}) - e^x - \sin^{-1}(x)$ in MATLAB?(
Assume x is defined variable)

Select one:

- ☐ $\log(x^{20}) - e^x - \sin^{-1}(x)$
- ☐ $\log_{10}(x^{20}) - \exp(x) - \text{asin}(x)$
- ☐ $\ln(x^{20}) - e^x - \sin^{-1}(x)$
- ☒ None of these

The correct answer is:

$\log_{10}(x^{20}) - \exp(x) - \text{asin}(x)$

Question **2**

Complete

Mark 1.00 out of 1.00

Which of the following command lists the current variable in MATLAB?

- A. list
- B. who
- C. Type
- D. Pwd

Select one:

- ☐ A
- ☐ C
- ☐ D
- ☒ B

The correct answer is: B

Question **3**

Complete

Mark 1.00 out of 1.00

Index of an array in MATLAB start with

- A. 0
- B. 1
- C. Depends on the class of array
- D. None of these

Select one:

- ☒ B
- ☐ D
- ☐ A
- ☐ C

The correct answer is: B

Question **4**

Complete

Mark 1.00 out of 1.00

To see the sub matrix with a_{ij} for $2 \leq i \leq 4$ and $1 \leq j \leq 2$ of matrix a , of order 5×6 which code is used?

Select one:

- ☐ None of these
- ☐ `a(2;4,1;2)`
- ☐ `a(2,4:1,2)`
- ☒ `a(2:4,1:2)`

The correct answer is: `a(2:4,1:2)`

Question **5**

Complete

Mark 1.00 out of 1.00

What is use of `abs` function in MATLAB?

- A. Returns the square root of a number
- B. Returns magnitude of a number
- C. Returns power of number
- D. None of these

Select one:

- ☒ B
- ☐ D
- ☐ C
- ☐ A

The correct answer is: B

Question **6**

Complete

Mark 1.00 out of 1.00

What happens if we don't assign a variable to an expression which evaluates a numerical value?

Select one:

- ☐ Depends on the numerical value
- ☐ MATLAB shows error
- ☒ The evaluated values are assigned to a variable and automatically
- ☐ Nothing happens

The correct answer is: The evaluated values are assigned to a variable and automatically

Question **7**

Complete

Mark 1.00 out of 1.00

The function to evaluate the value of a polynomial, for a constant value of the independent variable(say a) in the polynomial is

Select one:

- ☐ polyder(p)
- ☐ poly(p,a), p is a row vector
- ☒ polyval(c,a), c is a row vector
- ☐ polyint(p)

The correct answer is: polyval(c,a), c is a row vector

Question **8**

Complete

Mark 1.00 out of 1.00

Which code can be used for element wise multiplication of two matrices A and B?

- A. $A*B$
- B. $A.*B$
- C. $A./B$
- D. None of these

Select one:

- ☒ B
- ☐ C
- ☐ D
- ☐ A

The correct answer is: B

Question **9**

Complete

Mark 0.00 out of
1.00

What is the nature of the arrangement of the coefficients to store the following expression in MATLAB?

$$y = 3x^6 + x^3 + 6$$

Select one:

- ☒ [3,0,0,1,0,6]
- ☐ [3;0;0;1;0;0;6]
- ☐ None of these
- ☐ [3 0 0 1 0 0 6]

The correct answer is:

[3 0 0 1 0 0 6]

Question **10**

Complete

Mark 0.00 out of
1.00

What will be the output for the below block of code?

```
p=[1 3 2]; r=roots(P)
```

Select one:

- ☐ r=[-2,-2]
- ☒ r = -2
-1
- ☐ r=[-2 -1]
- ☐ There is an error in the code

The correct answer is: There is an error in the code

Question **11**

Complete

Mark 1.00 out of 1.00

If $a./b = (b./a)^T$, what can be concluded about the matrices a and b?

- A. $a = b^T$
- B. $a = b^{-1}$
- C. $a = b'$
- D. nothing special

Select one:

- ☐ C
- ☐ D
- ☐ B
- ☒ A

The correct answer is: A

Question **12**

Complete

Mark 0.00 out of 1.00

_____ is not predefined variable/function in MATLAB.

- A. inf
- B. pi
- C. Ans
- D. exp

Select one:

- ☐ B
- ☐ D
- ☐ C
- ☒ A

The correct answer is: C

Question **13**

Complete

Mark 1.00 out of 1.00

Name the functions used, for multiplication and division of two polynomials in MATLAB.

Select one:

- ☐ conv() and div()
- ☐ mult() and div()
- ☒ conv() and deconv()
- ☐ mult and div

The correct answer is: conv() and deconv()

Question **14**

Complete

Mark 0.00 out of 1.00

How can the formulation of polynomial be done from its roots?

Select one:

- ☐ poly([roots in descending order as a column vector])
- ☒ none of these
- ☐ roots(r), r is a row vector, containing the roots of the polynomial
- ☐ poly([roots as a row vector])

The correct answer is: poly([roots as a row vector])

Question **15**

Complete

Mark 1.00 out of 1.00

What is the symbol used to evaluate the transpose of a vector?

- A. " \wedge "
- B. " $*$ "
- C. " $'$ "
- D. " \sim "

Select one:

- ☒ C
- ☐ A
- ☐ D
- ☐ B

The correct answer is: C

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