SHRI MATA VAISHNO DEVI UNIVERSITY Battry No: Battel, ECCE Minor Examination (Odd) 2022-23 Total Number 21 Course Title: MATLAB Programming Time Allowed: Time Allowed: The 30 minutes Not CONTINUATION SHEET ALLOWED: Assure and justify with appropriate commenstee/scamples Allowed rearry with appropriate commenstee/scamples What is the difference between the 'help' and the 'look for' command? What is the difference between the 'help' and the 'look for' command? What is the difference between the loop runs for the code 'for i={1.15} p=p+1; end Symbol the error in the following code: N={10:110} y=={10:210} p_{plot(x,y)} What is the cerver in the following code? for i={1:110} p=a+1; end What is the difference between the two codes P=[91,pit]; and O=[91,pit]; What will be the output of the following code A=100; if(A>99) clear A; end What is the difference between the two codes P=[91,pit]; and O=[91,pit]; A student is repeatedly calling a function file but gets no output. She has checked the file repeatedly so finally she asked her teacher about it. The teacher checked everything and found the error and gives her a scolding. What is the silly mistake? Assuming the function and function call is correct and function logic is also acceptable. Section B Comment the given function code. Assume n=15 and 50 then find the o/p. Frame a question to get such code as answer function grad = XXXXXX(n) q3 = [3:3:n]; q5 = [5:5:n]; to = [q3 q5]; out = sum(too); f = floor(n/15); fac = [1:1:1]; sub = sum(fac.*15); out = out - sub end Write a function called reverse diagonal from top right to bottom left. The reverse diagonal of an n by-m matrix consists of the elements at the following indexes: (1, n), (2, n-1), (3, n-2), (n, 1). The function takes one positive integer input argument named n, which is the size of the matrix, and returns the matrix itself as an output argument. Note that using the built-in functions eye and diag are not allowed. Comment all lines and show flow diagram, algo siso Write a function			SH	IRI MATA VAISHNO	DEVILING	
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SHRI MATA VAISHNO DEVI UNIVERSITY, KATRA B. Tech. (ECE) Minor Examination I (Odd) 2022-23 (Jan-June 23) Entry No: Total Number of Pages: [01] Date: Total Number of Questions: [5] Course Title: MATLAB Programming Course Code:(ECL1200) Time Allowed: 1hr 30 minutes Max Marks: [20] NO CONTINUATION SHEET ALLOWED Instructions / Note Attempt all questions in sequence only A. To stop the execution of a MATLAB command, used keys (1) B. What would be the output of the following code (in editor window)? A = [0.1; 1.0]; B=2;C = A + B(1) C. What is the purpose of the MATLAB Command Window? The Edit Window? (3) The Figure Window?(3) D. Assume that array c is defined as shown, and determine the contents of the following subarrays: $c = [1.1 \ 23.2 \ 3.4 \ 0.6]$ 0.6 1.1 20.6 3.1 1.3 0.6 5.5 0.0] (a) c(2,:)(b) c(:,end) (c) c(1:2,2:end)(d) c(6)(e) c(4:end) (f) c(1:2,2:4)(g) c([1 3],2)(h) $c([2\ 2],[3\ 3])$ (4)E. Variables a, b, c, and d have been initialized to the following values: (6)a = 3; b = 2; c = 5; d = 3; Evaluate the following MATLAB assignment statements: (a) output = a*b+c*d; (b) output = a*(b+c)*d; (e) output = (a*b)+(c*d); (d) output = a^b^d ; (e) output = $a^(b^d)$; (f)-output= $a*b+c*d+ a^b^d$ F. Comment on the program and its output (5)x = 0:pi/100:2*pi; $y1 = \sin(2^*x);$ $y2 = 2*\cos(2*x);$ plot(x,y1,'k-',x,y2,'b--');title ('Plot of $f(x) = \sin(2x)$ and its derivative'); xlabel ('x'); ylabel ('y'); legend ('f(x)','d/dx f(x)','tl') grid on; Course objective Understanding the MATLAB environment Q1 Being able to do simple calculations using MATLAB Q2

Being able to carry out simple numerical computations and analyses using MATLAB

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SHRI MATA VAISHNO DEVI UNIVERSITY, KATRA B. Tech. (ECE) Minor Examination II (Odd) 2022-23 (Jan-June 23) Total Number of Pages: [01] Entry No: C 2 Date: 28th Mar 23 Total Number of Questions: [5] Course Title: MATLAB Programming Course Code:(ECL1200) Max Marks: [20] Time Allowed: 1hr 30 minutes NO CONTINUATION SHEET ALLOWED Instructions / Note Attempt all questions in sequence only. 1. Examine the following loops and determine the value in ires at the end of each of the loops. 2+2 A. ires = 0: B. ires = 0; for index 1 = 1:10for index 1 = 1:10for index2 = index1:10for index2 = index1:10if index2 == 6if index2 == 6continue: break; end end ires = ires + 1: ires = ires + 1;end end end end 2. Comment on the statement "The MATLAB Just-in-Time (JIT) Compiler" list its limitations (list at least three) in detail along with steps to use the same. Also Explain the 3. Describe The MATLAB Profiler advantage of using it A. Write a function called intquad that takes as its input arguments two scalar positive integers named n and m in that order. The function returns Q, a 2n-by-2m matrix. Q consists of four n-by-m submatrices. The elements of the submatrix in the top left corner are all 0s, the elements of the submatrix at the top right are 1s, the elements in the bottom left are 2s, and the elements in the

bottom right are 3s comment and explain 5. WAP to convert a string containing a day of week into the corresponding number. comment 1 + 3and explain

ourse objective

	Course objective	
-	Understanding the MATLAB environment	Q1
	Being able to do simple calculations using MATLAB	Q2
	Being able to carry out simple numerical computations and analyses using MATLAB	Q3,4,5

Instructions / Note

Entry No:

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Date:10th April 23

0 Q2 30 04 SID Understanding the MATLAB environment

Being able to do simple calculations using MATLAB

Being able to carry out simple numerical computations and analyses using MATLAB Answer and justify with appropriate comments/examples. Course objective scalar integers representing a month (1-12) and a day (1-31). You do not need to check that the input is valid. The function returns a logical true if the specified date is a holiday; if not, it may not use any built-in functions, e.g., the input vector and the last output argument equals the largest element. NOTE: Your function arguments in nondecreasing order, i.e., the first output argument equals the smallest element of statements, possibly nested, to return the three elements of the vector as three scalar output returns false. For the purposes of this exercise, the following dates are considered holidays: Write a function called holiday that takes two input arguments called month and day; both are are over 88%. The function returns the logical true or false. applicant is eligible if the average percentile is at least 92% and both of the individual percentiles verbal and quantitative portions of the GRE respectively. You do not need to check the input. The function takes two positive scalars called v and q as input. They represent the percentiles of the University decide whether the applicant is eligible for admission based on GRE scores. The January 1st, July 4th, December 25th, and December 31st. Write a function called sort3 that takes a 3-element vector as its sole arguments. It uses if-Write a function called eligible that helps the admission officer of the Graduate School of SMVD ಶ <u>o</u> 9 C <u>b</u> <u>a</u>) 8 (t limitations (list at least three Comment on the statement "The MATLAB Just-in-Time (JIT) Compiler" list its How would you start a debugger in MATLAB? end Describe Explain in detail how many times the loop runs for the code for $i=\{1:.1:5\}$ Find the error in the following code. What is the purpose of the MATLAB Command Window, the Edit Window &-the Figure Explain the advantage of using it Explain about the mentioned tools in MATLAB: who, whos, pi, eps, type What is the error in the following code? for $i=\{1: 10\}$ p=a+1; end What are the basic Plots and Graphs of MATLAB. List and explain detail with program example The MATLAB Profiler Section B (Comment and draw flow chart) sort, min, max, median, etc in detail along with steps to use the same. Also x=-10:1:10; y=-10:2:10; plot(x,y)2 2 p=p+1; one 6 6 6 6 5

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